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A METHOD OF ESTIMATING LOG WEIGHTS

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SYMBOLS

d_1	Actual small end diameter inside bark - inches
d_2	Actual large end diameter outside bark - inches
d_1'	Small end scaling diameter inside bark - inches
DI	Density index - pounds per cubic foot
L	Actual length - feet
L'	Scaling length - feet ($L = L' +$ trim allowance)
n	Number of truckloads in the sample for the density index
V_B	Scribner log volume - board feet
V_C	Cubic log volume inside bark - cubic feet
$\hat{V}_C$	Estimated cubic volume outside bark - cubic feet
W	Actual log weight - pounds
$\hat{W}$	Estimated log weight - pounds

ABSTRACT

This paper presents a practical method of estimating the weights of logs before they are yarded. Knowledge of log weights is required to achieve optimum loading of modern yarding equipment. Truckloads of logs are weighed and measured to obtain a local density index (pounds per cubic foot) for a species of logs. The density index is then used to estimate the weights of remaining logs before they are yarded. Estimates are made directly from graphs, tables, or a slide rule.

KEYWORDS: Logs, weights, logging.

1.0 INTRODUCTION

The forest industry has long recognized the need for a practical method of estimating the weight of logs before they are yarded. This need has accelerated as aerial logging systems having critical weight limitations find wider application. Analytical techniques which provide payload capabilities for these yarding systems are now available. Log weight estimates are needed for optimum utilization without overloads.

This paper presents a method of estimating log weights by use of a factor called a density index. Before log weights are estimated, the local density index for a species of logs is found by measuring and weighing truckloads of these logs. The density index, found in this manner, is used to estimate the remaining logs of the same species before they are yarded. Graphs and tables for estimating log weights are given as well as the mathematics for a slide rule.

This practical method of estimating log weights should be of interest to all concerned with the operation of weight-sensitive timber harvesting equipment.

2.0 BACKGROUND

A cooperative study[1/] with the University of Washington's College of Forestry was performed to obtain some insight into the variations in log density. This study analyzed logs of several species from locations in Alaska and Washington. Analysis showed that the ratio of weight to cubic log volume has a much smaller variation than the ratio of weight to board-foot volume, and the study recommended that further efforts be directed toward a method of weight estimation based on cubic volume. Appendix I discusses the board-foot to cubic-foot ratio as a function of log size.

3.0 ANALYTICAL APPROACH

In order to devise a practical method of estimating log weights, several assumptions were made. These are listed below:

1. Reasonably accurate cubic volumes of logs can be obtained from the scaling length, the large end diameter outside bark, and an assumed taper.
2. A sample of log cubic volumes and weights can provide a measure of the green density (density index) which can then be used to estimate log weights.
3. The green density of logs is reasonably constant for a given species and location.
4. Gradual changes in the green density due to location and seasonal variations can be determined by a moving average of the density index.

[1/] *K. J. Turnbull, L. V. Pienaar, and I. E. Bella. Report on a study of log weight estimation. (Unpublished paper on file at Pac. Northwest Forest & Range Exp. Stn., Seattle, Wash.)*

5. Volumetric errors, due to differences between actual scaling lengths and between actual and assumed taper, can be considered compensating in that the error is contained in both the sample of logs used to determine the average density value and in logs for which an estimate of weight is desired.

These assumptions ignore minor variations which are known to occur so as to allow formulation of a practical method of estimating log weights. Diameters are measured outside the bark to account for volume of the bark and to include variations in bark thickness.

There are variations in taper from tree to tree and from log to log in the same tree which can cause errors in cubic volume estimates. A method of estimating cubic volumes from the length and the sum of the end diameters has been suggested. While this method may yield more accurate cubic volume estimates, it cannot be directly applied to the critical problem of determining the length to buck a log for a given weight. The bucker generally knows the large end diameter since logs are cut from the butt end to maximize value. With a system based on the sum of the diameters, the bucker is left with two unknowns at this point: the length and the small end diameter. This method, based on large end diameter with an assumed taper, provides the bucker with a direct means of determining the length to be cut for a given log weight.

Cubic volume approximations and variations inherent in green density cause differences between actual and estimated log weights. For a yarding system that has little or no tolerance for overloads, estimates of log weights must be below specified capacity to reduce the probability of overloads. For example, assume the difference between estimated and actual weights for individual logs has a standard deviation of 12 percent of the actual weight. A reduction in capacity of 10 percent for estimating the weight of single log loads would result in the probability that about one load in five is over capacity. A reduction of 20 percent would result in less than one load in 20 being over capacity.

The mathematics of this method follow from the assumptions listed. From a sample of logs, a density index is found by taking the ratio of log weight to cubic volume. If truckloads of logs are used, the procedure given in Section 4.1 consists of finding a density index for each load,

$$DI = \frac{\Sigma W}{\Sigma \hat{V}_C},$$

(see the list of symbols, inside front cover, for the meaning of these and other symbols) in the sample and then obtaining an average of the density indexes,

$$DI = \frac{DI_1 + DI_2 + DI_3 + \ldots + DI_n}{n}.$$

The cubic volumes for the sampled logs can be obtained from tables 1 and 2 (Appendix II). These cubic volumes are based on the formula,

$$V_C = \frac{\pi}{576} \left(d_2 - \frac{L}{16}\right)^2 L,$$

which assumes a taper of 1 inch per 8 feet of length. In the calculation of the values listed in the table, a trim allowance of 1 inch per 4 feet of length was added to the scaling lengths.

Applying the density index in order to estimate log weights can be considered the reverse of obtaining the density index. Namely, log measurements are used to obtain the cubic volume which is then multiplied by the density index to estimate the log weight. That is,

$$\hat{W} = (DI)\ \hat{V}_C\ .$$

In practice, the user need not be concerned with cubic volumes. Tables, graphs, and the mathematics of a slide rule have been provided so that a weight estimate can be obtained directly from the density index, the large end diameter, and the scaling length. Both the curves and the tables for log weights in Appendix II are based on the same equation as used previously for the cubic volumes.

An alternate method of estimating log weights can be provided by a slide rule. This requires that the previous expression be transformed into a form similar to

$$\log\left(\frac{\hat{W} \cdot 576}{\pi}\right) = \log\ (DI) + \log\ \left(d_2 - \frac{L}{16}\right)^2 + \log\ (L).$$

However, the above equation is not satisfactory for a slide rule because the variable (L) appears in the logarithm of two terms. The $(d_2 - L/16)$ term can be approximated by $(d_2 - 2)$ for lengths up to 40 feet. This corresponds to a length of 32 feet. If logs weighing 10,000 pounds with a density index of 50 are considered, this approximation results in estimates that are about 4 percent low for a length of 10 feet and about 4 percent high for a length of 40 feet. These percentages will be larger for lighter logs and smaller for heavier logs. For lengths beyond 40 feet, the error introduced by the approximation becomes large. To avoid excessive errors, lengths for the slide rule beyond 40 feet can be obtained from the graph for a density index of 50 and a log weight of 10,000 pounds. Figure 1 shows a slide rule for estimating log weights.

4.0 SUGGESTED PROCEDURE

The following is a suggested procedure to obtain log weight estimates. The procedure consists of determining a density index for each species and location by sampling logs. Once the density index has been determined, the weight of logs can be estimated.

4.1 Sampling for the Density Index

The density index is found from an initial sample of log weights and dimensions. Truckloads of logs are convenient units to obtain these data. The

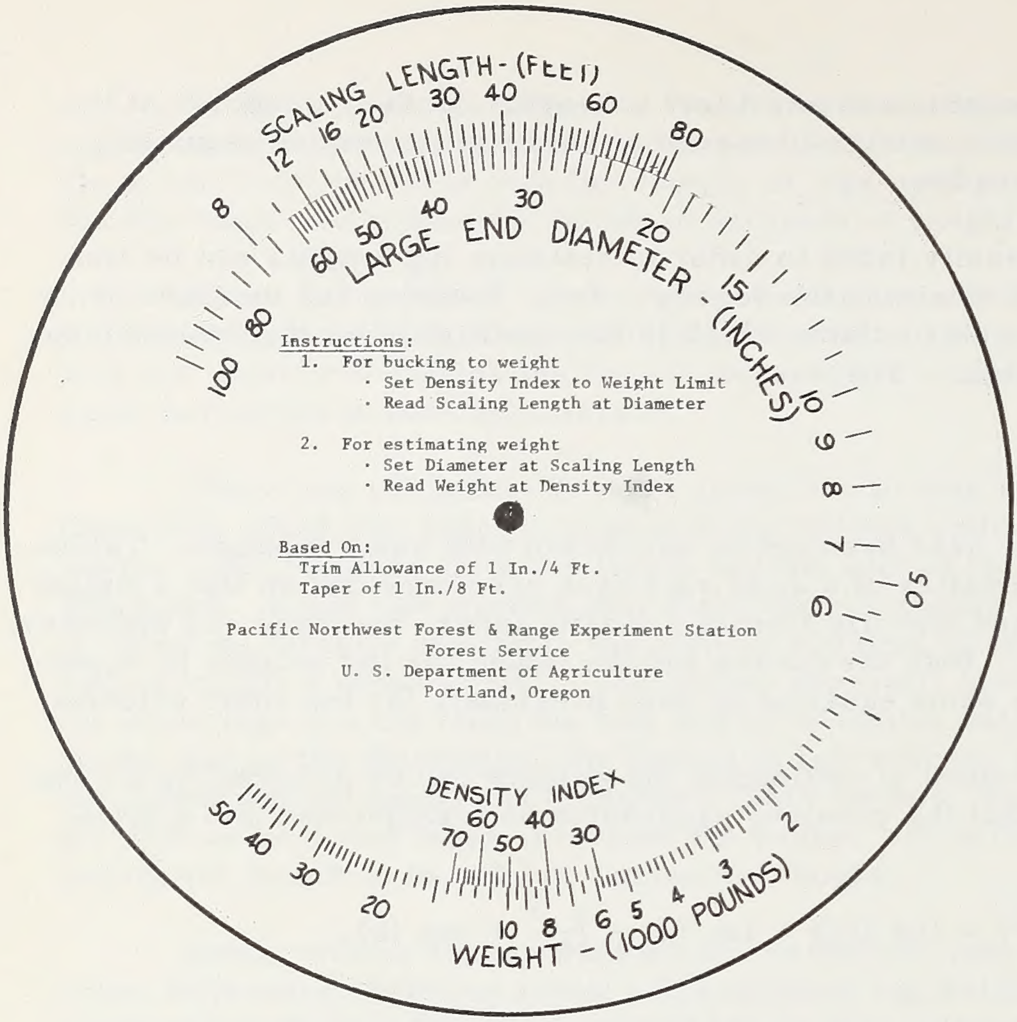


Figure 1.—Slide rule for estimating log weights.

density index can be obtained from other sources such as individual log weights and measurements or knowledge from previous nearby logging operations. Four or five truckloads or their equivalent in individual logs should generally be sufficient for a reasonably accurate density index.

To compute a density index for a truckload of logs, the net log weight and cubic volumes must be determined. Scaled cubic volumes are obtained from the large end diameter outside bark and the scaling length by referring to tables 1 and 2 of Appendix II. A worksheet is given in figure 26 of appendix II to facilitate the determination of density index of a truckload of logs. An average of the density indexes of several truckloads provides the density index for estimating log weights.

A moving average can incorporate density changes due to time, dependent influences such as seasonal variations, and gradual changes in location. A moving average is constructed by periodically obtaining a new sample for incorporation in the average density index and eliminating the oldest sample. An example of a four-load moving average of density index is shown in figure 2. A worksheet (fig. 27) is provided in Appendix II.

4.2 Estimating Log Weights

Once a density index has been established for a particular location and species, the weights of logs can be estimated from the graphs or tables in

Figure 2.—Example of moving average of density index.

Four-load moving average

Logging site: *Paddle Creek* Species: *Douglas-fir*

Sample number	Date of sample	Sample density index	Moving total of density index[1/]	Current moving average[2/]
1	Jan. 2	45.2		
2	Jan. 2	51.2		
3	Jan. 2	40.1		
4	Jan. 3	49.7	186.2	46.6
5	Mar. 2	42.0	183.0	45.8
6	May 3	43.5	175.3	43.8
7	July 1	41.7	176.9	44.2
8	Sept. 2	52.8	180.0	45.0
9	Nov. 2	44.5	182.5	45.6

1/ Add newest sample and delete oldest sample which was included in previous total.

2/ Divide moving total by number of samples in moving average.

Appendix II, or from a slide rule. Each of the graphs and tables in Appendix II is for a specific density index. A range of density indexes from 30 to 70 pounds per cubic foot is included. The nearest density index established by sampling is used for estimating log weights.

Two different problems are encountered when attempting to determine capacity loads for yarding equipment. In large diameter timber, single logs may make up the majority of loads and each log must be sized to approach the weight limit of the equipment. In smaller diameter timber, an estimate of the weight of each log is necessary to combine a number of logs into a capacity load. The graphs are arranged for the solution of either problem. When the size of a single log must be found to approach a capacity limit, the graph nearest the required density index is entered along the bottom with the large end diameter. A line is followed up to the appropriate log weight and then over to the log scaling length. When estimates of log weights are required, the graph is entered along the bottom with the large end diameter, and the line is followed upward until the proper length is reached, and the weight is read. Large end diameters should be measured outside the bark and lengths should be those defined by local custom or contract. The tables are used in a similar manner. For a single log load, the large end diameter is located in the table. The indicated

row is followed until the weight at or just below the limit is found. Bucking length is then obtained from the top of the table. For a multilog load, the weight estimate of each log is found directly from the large end diameter and scaling length.

Butt logs must be treated somewhat differently from other logs because of the concave exterior surface due to the root swell. Probably the best way to handle these logs is to make an estimate of the large end diameter outside the bark as though the taper of the log continued through to the end, disregarding the swell, as shown in figure 3.

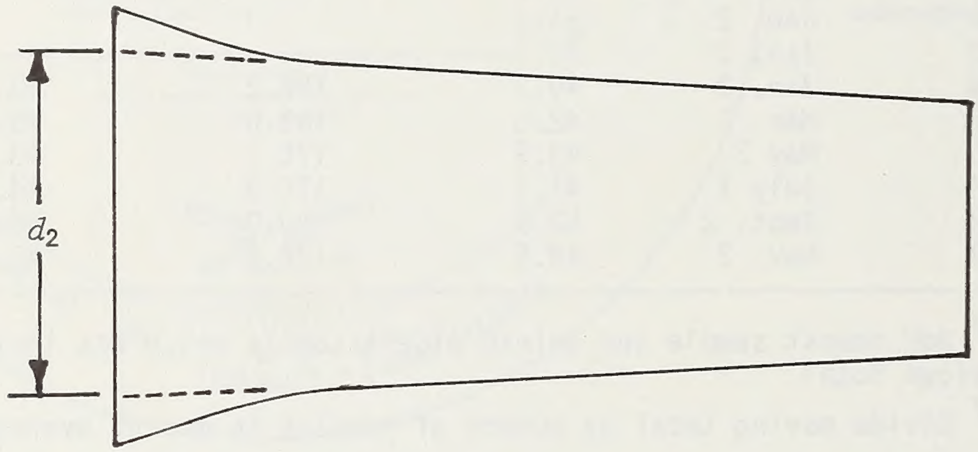


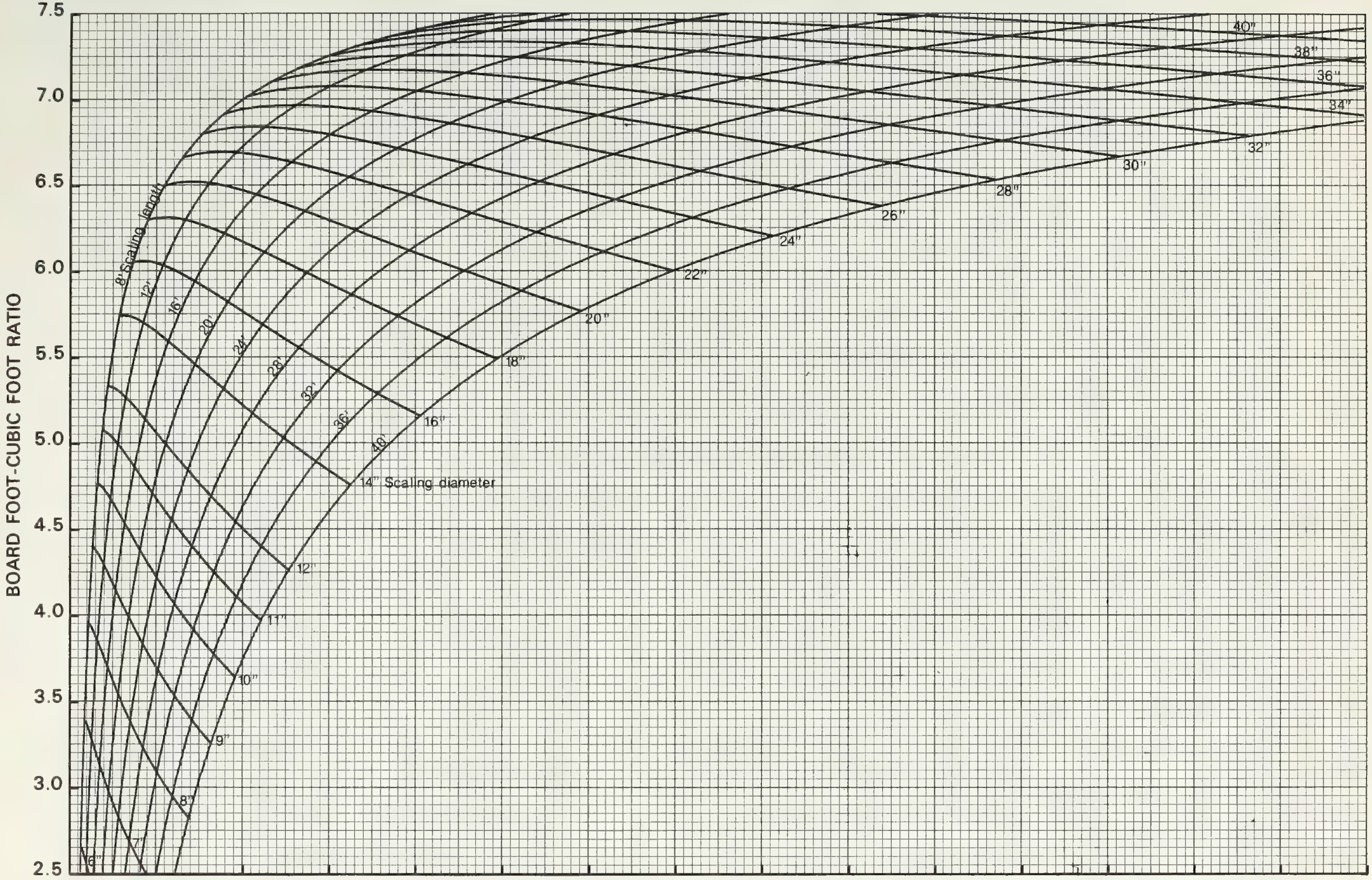
Figure 3.—Estimating large end diameter (d_2) on butt log.

APPENDIX I

THE BOARD-FOOT TO CUBIC-FOOT RATIO

Log weight estimates are commonly obtained by multiplying the board-foot scale of a log by a constant. The particular constant usually depends on the species of the log and the experience of the estimator. Use of the board-foot scale as a basis for weight estimates is due primarily to the logger's familiarity with that system of measurement. Unfortunately, the board-foot scale is only an estimate of the lumber yield of a log rather than a measure of its wood content.

Figure 4 shows the relationships between the board-foot to cubic-foot ratio and the cubic volume of logs for various diameters and lengths. The ratio can be considered a measure of the amount of total wood content which is included in the board-foot scale (if all the wood was included, the ratio would be a constant 12). The plot is of interest to the problem of log weight estimation because it clearly shows the wide variation of the board-foot to cubic-foot ratio with log size.


BOARD FOOT-CUBIC FOOT RATIO
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
8' Scaling length
12'
16'
20'
24'
28'
32'
36'
40'
14" Scaling diameter
6"
7"
8"
9"
10"
11"
12"
16"
18"
20"
22"
24"
26"
28"
30"
32"
34"
36"
38"
40"

The plot is based on the scribner formula rule,[2]

$$V_B = (0.79\, d_1'^2 - 2d_1' - 4)\, \frac{L'}{16},$$

which approximates the Scribner log rule to provide a continuous curve. Similar relationships can be obtained for other log rules and scaling practices. Cubic volumes were calculated by the Rapraeger rule,[3]

$$V_C = \frac{\pi}{576}\, (d_1 + \frac{L}{16})^2\, L,$$

which assumes a taper of 1 inch in 8 feet. In calculating these cubic volumes, a trim allowance of 8 inches has been added to the scaling lengths,

$$L = L' + 8/12,$$

and one-half inch has been added to the scaling diameters,

$$d_1 = d_1' + 1/2.$$

This is to correspond with the west-side scaling practice of dropping all fractions of an inch from the scaling diameters and adding a trim allowance to the scaling lengths.

APPENDIX II

TABLES, GRAPHS, AND WORKSHEETS

The following tables, graphs, and worksheets are provided for determining the density index and for estimating log weights. Tables 1 and 2 are cubic volume tables for determining the density index. For convenience, a worksheet (fig. 26) is provided for computing a density index from a truckload of logs. Figure 27 is a worksheet for a moving average of the density index. Log weight estimates can be made from the graphs (figs. 5-25) or tables (tables 3-44) after the density index has been determined.

2/ *Donald Bruce and Francis Schumacher. Forest mensuration. New York, McGraw-Hill Book Co., Inc., 483 p., 1960.*

3/ *J. R. Dilworth. Log scaling and timber cruising. Corvallis, Oregon State University Book Stores, Inc., 448 p., 1965.*

Table 1.--Cubic log volumes for scaling lengths of 4 to 32 feet

LARGE END DIAMETER (INCHES)	LOG VOLUME (CUBIC FEET)							ASSUMED TAPER OF 1 INCH PER 8 FEET, TRIM ALLOWANCE OF 1 INCH PER 4 FEET								
	SCALING LENGTH (FEET)															
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.7	1.1	1.3	1.6	1.8	2.0	2.2	2.3	2.4	2.5	2.6	2.7	2.7	2.8	2.8	2.8
7	1.0	1.5	1.9	2.3	2.6	2.9	3.2	3.3	3.4	3.6	3.8	4.0	4.1	4.2	4.3	4.4
8	1.3	1.9	2.5	3.0	3.5	3.9	4.3	4.5	4.7	5.0	5.3	5.6	5.8	6.0	6.2	6.3
9	1.7	2.5	3.2	3.9	4.5	5.1	5.7	5.9	6.2	6.6	7.1	7.5	7.8	8.1	8.4	8.6
10	2.1	3.1	4.0	4.9	5.7	6.5	7.2	7.5	7.9	8.5	9.1	9.6	10.1	10.5	10.9	11.3
11	2.6	3.8	4.9	6.0	7.0	8.0	8.9	9.3	9.7	10.5	11.3	12.0	12.6	13.2	13.8	14.3
12	3.1	4.5	5.9	7.2	8.4	9.6	10.7	11.3	11.8	12.8	13.8	14.6	15.5	16.3	17.0	17.7
13	3.6	5.3	6.9	8.5	10.0	11.4	12.8	13.4	14.1	15.3	16.5	17.6	18.6	19.6	20.5	21.4
14	4.2	6.2	8.1	9.9	11.7	13.4	15.0	15.8	16.6	18.0	19.4	20.8	22.0	23.3	24.4	25.5
15	4.8	7.1	9.4	11.5	13.5	15.5	17.4	18.3	19.2	21.0	22.6	24.2	25.8	27.2	28.6	29.9
16	5.5	8.1	10.7	13.1	15.5	17.8	20.0	21.1	22.1	24.1	26.1	28.0	29.8	31.5	33.1	34.7
17	6.2	9.2	12.1	14.9	17.6	20.2	22.7	24.0	25.2	27.5	29.8	32.0	34.1	36.1	38.0	39.9
18	7.0	10.4	13.6	16.8	19.8	22.8	25.7	27.1	28.5	31.1	33.7	36.2	38.7	41.0	43.2	45.4
19	7.8	11.6	15.2	18.8	22.2	25.6	28.8	30.4	31.9	35.0	37.9	40.8	43.5	46.2	48.8	51.2
20	8.7	12.9	16.9	20.9	24.7	28.5	32.1	33.9	35.6	39.0	42.4	45.6	48.7	51.7	54.6	57.5
21	9.6	14.2	18.7	23.1	27.4	31.5	35.6	37.5	39.5	43.3	47.0	50.6	54.2	57.6	60.8	64.0
22	10.5	15.6	20.6	25.4	30.1	34.7	39.2	41.4	43.6	47.8	52.0	56.0	59.9	63.7	67.4	71.0
23	11.5	17.1	22.5	27.8	33.0	38.1	43.0	45.5	47.9	52.6	57.1	61.6	65.9	70.2	74.3	78.3
24	12.6	18.6	24.6	30.4	36.1	41.6	47.0	49.7	52.3	57.5	62.5	67.5	72.3	76.9	81.5	85.9
25	13.6	20.2	26.7	33.0	39.2	45.3	51.2	54.1	57.0	62.7	68.2	73.6	78.9	84.0	89.0	93.9
26	14.8	21.9	28.9	35.8	42.5	49.1	55.6	58.8	61.9	68.1	74.1	80.0	85.8	91.4	96.9	102.3
27	15.9	23.7	31.3	38.7	46.0	53.1	60.1	63.6	67.0	73.7	80.3	86.7	93.0	99.1	105.1	111.0
28	17.1	25.5	33.7	41.7	49.6	57.3	64.8	68.6	72.3	79.5	86.6	93.6	100.4	107.1	113.7	120.1
29	18.4	27.4	36.2	44.8	53.3	61.6	69.7	73.8	77.7	85.6	93.3	100.3	108.2	115.5	122.5	129.5
30	19.7	29.3	38.7	48.0	57.1	66.0	74.8	79.1	83.4	91.9	100.2	108.3	116.3	124.1	131.8	139.3
31	21.1	31.3	41.4	51.3	61.1	70.7	80.1	84.7	89.3	98.4	107.3	116.0	124.6	133.0	141.3	149.4
32	22.4	33.4	44.2	54.8	65.2	75.4	85.5	90.5	95.4	105.1	114.7	124.1	133.3	142.3	151.2	159.9
33	23.9	35.5	47.0	58.3	69.4	80.4	91.1	96.4	101.7	112.1	122.3	132.3	142.2	151.9	161.4	170.8
34	25.4	37.9	[illegible]	62.0	73.6	85.4	96.9	102.5	108.2	119.2	130.1	140.9	151.4	161.8	172.0	182.0
35	26.9	40.0	53.0	65.7	78.3	90.7	102.9	108.9	114.8	126.6	138.3	149.7	160.9	172.0	182.8	193.5
36	28.5	42.4	56.1	69.6	82.9	96.1	109.0	115.4	121.7	134.3	146.6	158.8	170.7	182.5	194.1	205.5
37	30.1	44.8	59.3	73.6	87.7	101.6	115.3	122.1	128.8	142.1	155.2	168.1	180.9	193.3	205.6	217.7
38	31.7	47.3	62.6	77.7	92.6	107.3	121.8	129.0	136.1	150.2	164.1	177.7	191.2	204.4	217.5	230.4
39	33.4	49.8	66.0	81.5	97.7	113.2	128.5	136.1	143.6	158.5	173.1	187.6	201.9	215.9	229.7	243.4
40	35.2	52.4	69.5	85.3	102.6	119.2	135.4	143.7	151.3	167.0	182.5	197.7	212.8	227.7	242.3	256.7
41	37.0	55.1	73.0	90.7	108.2	125.4	142.4	150.8	159.2	175.7	192.1	208.2	224.1	239.7	255.2	270.4
42	38.9	57.9	76.7	95.3	113.6	131.7	149.6	158.5	167.3	184.7	201.9	218.9	235.6	252.1	268.4	284.5
43	40.7	60.7	80.4	99.9	119.2	138.2	157.0	165.3	175.5	193.9	211.9	229.8	247.4	264.8	282.0	298.9
44	42.0	63.6	84.2	104.7	124.9	144.9	164.6	174.3	184.0	203.3	222.3	241.0	259.5	277.8	295.9	313.7
45	[illegible]	66.5	88.2	109.6	130.7	151.6	172.3	182.5	192.7	212.9	232.8	252.5	271.9	291.1	310.1	328.8
46	46.6	69.5	92.2	114.6	136.7	158.6	180.2	191.0	201.6	222.7	243.6	264.2	284.6	304.8	324.6	344.3
47	48.7	72.6	96.3	119.7	142.8	165.7	188.3	199.5	210.7	232.8	254.7	276.3	297.6	318.7	339.5	360.1
48	50.9	75.7	100.5	124.9	149.1	173.0	196.6	208.7	220.5	243.1	266.0	288.5	310.0	332.0	354.8	376.3
49	52.9	79.0	104.7	130.2	155.4	180.4	205.1	217.3	229.5	253.6	277.5	301.1	324.4	347.5	370.3	392.9
50	55.1	82.2	109.1	135.7	162.0	188.0	213.7	226.5	239.2	264.4	289.3	313.9	338.3	362.4	386.2	409.8
51	57.3	85.0	113.5	141.2	168.6	195.7	222.5	235.8	249.1	275.3	301.3	327.0	352.4	377.6	402.5	427.1
52	59.6	[illegible]	118.1	146.9	175.4	203.6	231.5	245.4	259.2	286.5	313.6	340.4	366.9	393.1	419.0	444.7
53	62.0	92.0	122.7	152.7	182.3	211.6	241.7	255.1	269.5	297.0	326.1	354.0	381.6	408.9	435.9	462.7
54	64.3	96.0	127.4	158.4	189.3	219.9	251.0	265.0	279.9	309.5	338.9	367.9	396.6	425.0	453.2	481.0
55	66.7	99.7	132.3	164.5	196.5	228.2	259.6	275.1	290.6	321.4	351.9	382.0	411.9	441.5	470.7	499.7
56	69.2	103.3	137.1	170.6	203.8	236.7	269.3	285.4	301.5	333.5	365.1	396.4	427.5	458.2	488.6	518.7
57	71.7	107.1	142.1	176.9	211.3	245.4	279.2	295.9	312.6	345.8	378.6	411.1	443.4	475.3	506.9	538.1
58	74.3	110.9	147.2	183.2	218.9	254.2	289.2	306.6	323.9	358.3	392.4	426.1	459.5	492.6	525.4	557.9
59	76.9	114.8	152.4	189.6	226.5	263.2	299.5	317.5	335.4	371.0	406.3	441.7	476.0	510.3	544.3	578.0
60	79.5	118.7	157.5	196.2	234.4	272.3	310.9	328.5	347.1	384.0	420.6	456.8	492.7	528.3	563.6	598.5

Table 2.--Cubic log volumes for scaling lengths of 34 to 60 feet

LARGE END DIAMETER (INCHES)	LOG VOLUME (CUBIC FEET) ASSUMED TAPER OF 1 INCH PER 8 FEET, TRIM ALLOWANCE OF 1 INCH PER 4 FEET — SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	2.8	2.8	2.7	2.7	2.6	2.6	2.5	2.5	2.4	2.3	2.2	2.1	2.0	1.8	1.7	1.6
7	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.2	4.1	4.0	3.9	3.8	3.7	3.5	3.4
8	6.4	6.5	6.5	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.8
9	8.8	8.9	[illegible]	9.1	9.3	9.3	9.4	9.4	9.4	9.4	9.4	9.3	9.3	9.2	9.1	8.9
10	11.6	11.8	11.9	12.1	12.4	12.5	12.6	12.7	12.8	12.9	12.9	12.9	12.9	12.9	12.8	12.7
11	14.8	15.0	15.2	15.6	15.9	16.2	16.3	16.4	16.7	16.8	17.0	17.1	17.2	17.2	17.2	17.2
12	18.3	18.6	18.9	19.4	19.9	20.3	20.5	20.7	21.0	21.3	21.6	21.8	22.0	22.1	22.2	22.3
13	22.2	22.6	23.0	23.7	24.3	24.9	25.2	25.5	25.9	26.4	26.8	27.1	27.4	27.7	27.9	28.1
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30.7	31.4	32.0	32.5	33.0	33.5	33.9	34.3	34.6
15	31.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	36.4	[illegible]	38.1	38.8	39.5	40.1	40.7	41.2	41.7
16	36.2	36.9	37.6	39.0	40.3	41.5	42.1	42.6	43.7	44.7	45.7	46.6	47.4	48.2	48.9	49.5
17	41.6	42.5	43.3	44.9	46.5	48.0	48.7	49.3	50.7	51.9	53.1	54.2	55.2	56.2	57.1	58.0
18	[illegible]	[illegible]	[illegible]	[illegible]	53.1	54.9	55.7	56.5	58.1	59.6	61.1	62.4	63.7	64.9	66.0	67.1
19	53.6	54.8	55.9	58.1	60.3	62.3	63.3	64.2	66.1	67.9	69.6	71.2	72.7	74.2	75.6	76.9
20	60.2	61.5	62.8	65.4	67.8	70.2	71.3	72.4	74.6	76.7	78.7	80.6	82.4	84.1	85.8	87.4
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	83.6	[illegible]	[illegible]	[illegible]	92.7	94.7	96.6	98.5
22	74.4	76.1	77.8	81.1	84.2	87.3	88.8	90.2	93.1	95.8	98.5	101.1	103.5	105.9	108.1	110.3
23	82.1	84.0	85.9	89.6	93.1	96.6	98.2	99.9	103.1	106.2	109.2	112.2	115.0	117.7	120.3	122.8
24	90.2	92.3	94.4	98.5	102.5	106.3	108.2	110.0	113.6	117.2	120.6	123.8	127.0	130.1	133.1	135.9
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	124.7	[illegible]	132.4	136.1	139.7	143.2	146.5	149.7
26	[illegible]	[illegible]	[illegible]	117.6	[illegible]	[illegible]	[illegible]	131.9	136.3	[illegible]	144.8	149.0	153.0	156.8	160.6	164.2
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	153.1	157.4	162.4	166.8	171.1	175.3	179.4
28	126.3	129.4	132.4	138.4	144.2	149.9	152.7	155.5	160.9	166.2	171.4	176.4	181.3	186.0	190.7	195.2
29	136.3	139.6	142.9	149.4	155.6	162.0	165.1	168.1	174.0	179.8	185.4	191.0	196.3	201.6	206.7	211.7
30	146.6	150.2	153.8	160.9	167.8	174.5	177.9	181.2	187.6	193.9	200.1	206.1	212.0	217.8	223.4	228.8
31	157.4	161.3	165.1	172.8	180.2	187.6	191.2	194.7	201.7	208.6	215.3	221.9	228.3	234.5	240.7	246.6
32	168.5	172.7	176.8	185.1	193.1	[illegible]	[illegible]	[illegible]	215.4	223.9	231.1	[illegible]	245.1	252.0	[illegible]	265.1
33	179.9	184.5	189.0	197.8	206.5	215.0	219.2	223.3	231.5	239.5	247.4	255.1	262.6	270.0	277.2	284.3
34	191.8	196.7	201.5	210.9	220.3	229.4	233.9	238.4	247.2	255.8	264.3	272.6	280.7	288.7	296.5	304.1
35	204.0	209.2	214.4	224.5	234.5	244.3	249.1	253.9	263.3	272.6	281.7	290.6	299.4	307.9	316.4	324.6
36	216.7	222.2	227.7	238.5	249.2	259.6	264.8	269.9	280.0	289.9	299.7	309.3	318.6	327.9	336.9	345.8
37	229.7	235.5	241.4	[illegible]	[illegible]	275.4	[illegible]	286.4	297.2	307.8	318.2	328.5	338.5	348.4	358.1	367.6
38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	301.7	[illegible]	[illegible]	314.9	326.2	337.3	348.7	[illegible]	369.5	379.9	390.1
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	314.7	[illegible]	[illegible]	[illegible]	[illegible]	368.6	380.1	391.3	402.4	413.3
40	270.9	278.0	284.9	298.7	312.3	325.7	332.3	338.9	351.9	364.6	377.2	389.6	401.8	413.7	425.5	437.1
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	371.1	384.6	398.0	411.1	424.0	436.5	449.3	461.6
42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	390.0	405.2	419.3	433.2	446.9	460.4	473.7	486.8
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	411.1	[illegible]	441.2	[illegible]	[illegible]	[illegible]	498.8	512.6
44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	479.2	[illegible]	[illegible]	[illegible]	539.1
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	519.2	535.1	[illegible]	[illegible]
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	510.2	[illegible]	544.5	[illegible]	[illegible]	594.1
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	497.3	515.9	534.3	552.5	570.4	588.0	605.4	622.6
48	397.6	[illegible]	418.7	439.5	460.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	643.4	662.7	681.7
50	433.1	444.6	456.1	478.9	501.4	523.6	534.7	545.6	567.3	588.8	610.0	630.9	651.6	672.1	692.2	712.2
51	451.4	463.4	475.4	499.2	522.7	546.0	557.5	569.0	591.7	614.1	636.3	658.3	679.9	701.3	722.5	743.4
52	470.1	482.6	495.2	[illegible]	544.6	568.8	580.9	592.8	616.6	640.0	663.2	686.2	708.8	731.2	753.3	775.2
53	[illegible]	[illegible]	[illegible]	[illegible]	566.6	592.1	604.7	617.2	642.0	666.5	690.7	714.6	738.3	761.7	784.9	807.7
54	508.6	522.2	535.8	562.8	589.5	615.9	628.6	642.0	667.9	693.4	718.7	743.7	768.4	792.9	817.0	840.9
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	824.6	[illegible]	874.8
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	749.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	917.4	944.5
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	952.1	[illegible]
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	836.2	867.1	897.7	927.9	957.9	987.5	1016.9
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 3.--Log weights for scaling lengths of 4 to 32 feet: density index = 30 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=30

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.02	.03	.04	.05	.05	.06	.07	.07	.07	.07	.08	.08	.08	.08	.08	.08
7	.03	.04	.06	.07	.08	.09	.10	.10	.10	.11	.12	.12	.12	.13	.13	.13
8	.04	.06	.07	.09	.10	.12	.13	.14	.14	.15	.16	.17	.17	.18	.19	.19
9	.05	.07	.10	.12	.14	.15	.17	.18	.19	.20	.21	.22	.23	.24	.25	.26
10	.06	.09	.12	.15	.17	.19	.22	.23	.24	.25	.27	.29	.30	.32	.33	.34
11	.08	.11	.15	.18	.21	.24	.27	.28	.29	.32	.34	.36	.38	.40	.41	.43
12	.09	.14	.18	.22	.25	.29	.32	.34	.35	.38	.41	.44	.46	.49	.51	.53
13	.11	.16	.21	.26	.30	.34	.38	.40	.42	.46	.49	.53	.56	.59	.62	.64
14	.13	.19	.24	.30	.35	.40	.45	.47	.50	.54	.58	.62	.66	.70	.73	.76
15	.15	.21	.28	.34	.41	.47	.52	.55	.58	.63	.68	.73	.77	.82	.86	.90
16	.17	.24	.32	.39	.47	.53	.60	.63	.66	.72	.78	.84	.89	.94	.99	1.04
17	.19	.28	[illegible]	.45	[illegible]	.61	.68	.72	.76	.83	.89	.96	1.02	1.08	1.14	1.20
18	.21	.31	.41	.50	.60	.68	.77	.81	.85	.93	1.01	1.09	1.16	1.23	1.30	1.36
19	.23	.35	.46	.56	.67	.77	.86	.91	.96	1.05	1.14	1.22	1.31	1.39	1.46	1.54
20	.26	.39	.51	.63	.74	.85	.96	1.02	1.07	1.17	1.27	1.37	1.46	1.55	1.64	1.72
21	.29	.43	.56	.69	.82	.95	1.07	1.13	1.18	1.30	1.41	1.52	1.62	1.73	1.83	1.92
22	.32	.47	.62	.76	.90	1.04	1.18	1.24	1.31	1.43	1.56	1.68	1.80	1.91	2.02	2.13
23	.35	.51	.68	.84	.99	1.14	1.29	1.36	1.44	1.58	1.71	1.85	1.98	2.10	2.23	2.35
24	.38	.56	.74	.91	1.08	1.25	1.41	1.49	1.57	1.73	1.88	2.02	2.17	2.31	2.44	2.58
25	.41	.61	.80	.99	1.18	1.36	1.54	1.62	1.71	1.88	2.05	2.21	2.37	2.52	2.67	2.82
26	.44	.66	.87	1.07	1.28	1.47	1.67	1.76	1.86	2.04	2.22	2.40	2.57	2.74	2.91	3.07
27	.48	.71	.94	1.16	1.38	1.59	1.80	1.91	2.01	2.21	2.41	2.60	2.79	2.97	3.15	3.33
28	.51	.76	1.01	1.25	1.49	1.72	1.95	2.06	2.17	2.39	2.60	2.81	3.01	3.21	3.41	3.60
29	.55	.82	1.08	1.34	1.60	1.85	2.09	2.21	2.33	2.57	2.80	3.02	3.25	3.46	3.68	3.88
30	.59	[illegible]	1.15	1.44	1.71	1.99	2.24	2.37	2.56	2.76	3.01	3.25	3.49	3.72	3.95	4.18
31	.63	.94	1.24	1.54	1.83	2.12	2.40	2.54	2.68	2.95	3.22	3.48	3.74	3.99	4.24	4.48
32	.67	1.00	1.33	1.64	1.96	2.26	2.56	2.71	2.86	3.15	3.44	3.72	4.00	4.27	4.54	4.80
33	.72	1.07	1.41	1.75	2.08	2.41	2.73	2.89	3.05	3.36	3.67	3.97	4.27	4.56	4.84	5.12
34	.76	1.13	1.50	1.86	2.21	2.56	2.91	3.08	3.24	3.58	3.90	4.23	4.54	4.85	5.16	5.46
35	.81	1.20	1.59	1.97	2.35	2.72	3.09	3.27	3.45	3.80	4.15	4.49	4.83	5.16	5.49	5.81
36	.85	1.27	1.68	2.09	2.49	2.88	3.27	3.46	3.65	4.03	4.40	4.76	5.12	5.47	5.82	6.16
37	.90	1.34	1.78	2.21	2.63	3.05	3.46	3.66	3.86	4.26	4.66	5.04	5.42	5.80	6.17	6.53
38	[illegible]	1.42	[illegible]	2.33	2.78	3.22	3.65	3.87	4.08	4.51	4.92	5.33	5.74	6.13	6.53	6.91
39	1.00	1.49	1.98	2.46	2.93	3.40	3.85	4.08	4.31	4.75	5.19	5.63	6.06	6.48	6.89	7.30
40	1.06	[illegible]	[illegible]	2.59	[illegible]	3.58	4.06	[illegible]	4.54	5.01	5.47	5.93	6.36	6.83	7.27	7.70
41	1.11	[illegible]	2.19	2.72	3.24	3.76	4.27	4.52	4.77	5.27	5.76	6.24	6.72	7.19	7.66	8.12
42	[illegible]	1.74	[illegible]	2.86	3.41	3.95	4.49	4.75	5.02	5.54	6.06	6.57	7.07	7.56	8.05	8.53
43	1.22	1.82	2.41	3.00	3.58	4.15	4.71	4.99	5.27	5.82	6.36	6.89	7.42	7.94	8.46	8.97
44	[illegible]	1.91	2.53	3.14	3.75	4.35	4.94	5.23	5.52	6.10	6.67	7.23	7.79	8.33	8.88	9.41
45	1.34	2.00	2.64	3.29	3.92	4.55	5.17	5.48	5.78	6.39	6.98	7.57	8.16	8.73	9.30	9.86
46	1.40	2.09	2.77	3.44	4.10	4.76	5.41	5.73	6.05	6.68	7.31	7.93	8.54	9.14	9.74	10.33
47	1.46	2.18	2.89	3.59	4.28	4.97	5.65	5.99	6.32	6.98	7.64	8.29	8.93	9.56	10.19	10.80
48	1.52	2.27	3.01	3.75	4.47	5.19	5.90	6.25	6.60	7.29	7.98	8.66	9.33	9.99	10.64	11.29
49	1.59	2.37	3.14	3.91	4.66	5.41	6.15	6.52	6.88	7.61	8.32	9.07	9.73	10.43	11.11	11.79
50	1.65	2.47	3.27	4.07	4.86	5.64	6.41	6.79	7.18	7.93	8.68	9.42	10.15	10.87	11.59	12.29
51	1.72	2.57	3.41	4.24	5.06	5.87	6.68	7.07	7.47	8.26	9.04	9.81	10.57	11.33	12.07	12.81
52	1.79	2.67	3.54	4.41	5.26	6.11	6.95	7.36	7.77	8.60	9.41	10.21	11.01	11.79	12.57	13.34
53	[illegible]	2.77	3.68	[illegible]	5.47	6.35	7.22	7.65	[illegible]	8.94	9.78	10.62	11.45	12.27	13.06	13.88
54	1.93	2.88	3.82	4.76	5.68	6.60	7.50	7.95	8.40	9.29	10.17	11.04	11.90	12.75	13.59	14.43
55	2.00	2.99	3.97	4.94	5.90	6.85	7.79	8.25	8.72	9.64	10.56	11.46	12.36	13.24	14.12	14.99
56	2.08	[illegible]	4.11	[illegible]	6.12	7.12	[illegible]	8.56	9.05	[illegible]	10.95	11.90	12.82	13.75	[illegible]	15.56
57	2.15	3.21	4.26	5.31	6.34	7.36	8.37	8.88	9.38	10.37	11.36	12.33	13.30	14.26	15.21	16.14
58	2.23	3.33	4.42	5.50	6.57	7.63	8.68	9.20	9.72	10.75	11.77	12.79	13.79	14.78	15.76	16.74
59	2.31	[illegible]	4.57	5.69	[illegible]	7.90	8.98	9.52	10.06	11.13	12.19	13.24	14.28	15.31	16.33	17.34
60	2.38	[illegible]	4.73	5.89	[illegible]	8.17	[illegible]	9.86	10.41	11.52	12.62	[illegible]	14.76	15.65	16.91	17.95

* 1KIP=1000 POUNDS

Table 4.--Log weights for scaling lengths of 34 to 60 feet: density index = 30 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=30

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	[illegible]	[illegible]	[illegible]	[illegible]	42	[illegible]	44	46	48	50	52	54	56	58	60
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.08	.08	.07	.07	.07	.07	.06	.06	[illegible]	.05	.05
7	[illegible]	[illegible]	[illegible]	[illegible]	.13	.13	.13	.13	.13	.12	.12	.12	.11	.11	.11	.11
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.21	[illegible]	[illegible]	.20	[illegible]	.19	.19	.19	[illegible]	.18	.17
9	[illegible]	[illegible]	[illegible]	[illegible]	.29	.29	.28	[illegible]	.28	.25	.26	.28	.28	.28	.27	.27
10	[illegible]	[illegible]	[illegible]	[illegible]	.37	.38	.38	.38	.38	.39	.39	.39	.39	.39	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.49	.49	.49	.51	.51	.51	.51	.51	.52	.52	.52
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.61	.62	.62	.63	.64	.65	[illegible]	.66	.66	.67	.67
13	[illegible]	[illegible]	[illegible]	.71	.73	[illegible]	.74	.76	.77	.79	[illegible]	.81	.82	.83	.84	.86
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.91	.92	.94	.96	[illegible]	.99	1.00	1.02	[illegible]	1.05
15	.93	.95	.97	1.00	1.04	1.06	1.08	1.09	1.12	1.14	1.16	1.19	1.20	1.22	1.24	1.25
16	1.09	1.11	1.13	1.17	1.21	1.24	1.26	1.28	1.31	1.34	1.37	1.40	1.42	1.44	1.47	1.48
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.44	1.46	1.48	1.52	1.56	1.59	1.63	1.66	1.68	1.71	1.74
18	1.42	1.45	1.48	1.54	1.59	1.65	1.67	1.70	1.74	1.79	1.83	1.87	1.91	1.95	1.98	2.01
19	1.61	1.64	1.68	1.74	1.81	1.87	1.90	1.93	1.98	2.04	2.09	2.14	2.18	2.23	2.27	2.31
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.14	2.17	2.24	[illegible]	2.36	2.42	2.47	2.52	2.57	2.62
21	[illegible]	[illegible]	[illegible]	2.19	2.27	[illegible]	2.39	2.43	2.51	2.58	2.65	2.72	2.78	2.84	[illegible]	[illegible]
22	2.23	2.29	2.33	2.43	2.53	2.62	2.66	2.71	2.79	2.88	2.95	3.03	3.11	3.18	3.24	3.31
23	[illegible]	[illegible]	[illegible]	[illegible]	2.79	[illegible]	[illegible]	[illegible]	[illegible]	3.19	3.28	3.36	3.45	3.53	3.61	3.68
24	2.71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.41	3.51	3.62	3.72	3.81	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.56	[illegible]	3.74	[illegible]	3.97	4.08	4.19	4.29	[illegible]	4.49
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.35	4.47	4.59	4.70	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.15	[illegible]	[illegible]	4.45	[illegible]	4.73	4.87	[illegible]	5.13	5.26	5.38
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.58	[illegible]	4.87	[illegible]	5.14	5.29	5.44	5.58	5.72	5.86
29	4.09	4.19	4.29	4.48	4.67	4.86	4.95	5.04	5.22	5.39	5.56	5.73	5.89	6.05	6.20	6.35
30	4.40	4.51	4.61	4.83	5.03	5.24	5.34	5.43	5.63	5.82	6.00	6.18	6.36	6.53	6.70	6.86
31	4.72	4.84	4.95	5.18	5.41	5.63	5.73	5.84	6.05	6.26	6.46	6.66	6.85	7.04	7.22	7.40
32	5.05	5.19	5.31	5.55	5.79	6.03	6.15	6.26	6.49	6.71	6.93	7.15	7.35	7.56	7.76	7.95
33	[illegible]	5.53	5.67	5.93	6.19	6.45	6.58	6.70	6.95	7.19	7.42	7.65	7.88	8.10	8.32	8.53
34	[illegible]	5.90	6.04	6.33	6.61	6.88	7.02	7.15	7.41	7.67	7.93	8.18	8.42	8.66	8.89	9.12
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.47	[illegible]	7.90	8.18	8.45	8.72	8.98	9.24	[illegible]	9.74
36	6.50	6.67	6.83	7.16	7.47	7.79	7.94	8.10	8.40	8.70	8.99	9.28	9.56	9.84	10.11	10.37
37	6.89	7.07	7.24	7.59	7.93	8.26	8.43	8.59	8.92	9.23	9.55	9.85	10.16	10.45	10.74	11.03
38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.75	[illegible]	[illegible]	9.45	9.79	10.12	10.45	10.77	[illegible]	[illegible]	[illegible]
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.25	9.44	[illegible]	[illegible]	10.35	10.71	[illegible]	[illegible]	11.74	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.77	9.97	10.17	[illegible]	[illegible]	11.32	11.69	[illegible]	12.41	12.77	13.11
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.13	11.54	11.94	[illegible]	12.72	[illegible]	[illegible]	[illegible]
42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.73	12.16	12.58	[illegible]	13.41	13.81	14.21	[illegible]
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.41	11.64	[illegible]	[illegible]	12.79	13.24	13.68	14.11	14.54	[illegible]	[illegible]
44	9.94	10.20	[illegible]	10.97	11.48	11.98	12.23	12.47	12.96	13.44	13.91	14.38	14.83	15.29	15.73	16.17
45	10.42	10.69	10.97	11.51	12.04	12.56	12.83	13.08	13.60	14.10	14.60	15.09	15.59	[illegible]	16.52	16.99
46	10.91	11.20	[illegible]	[illegible]	[illegible]	13.17	13.44	13.71	14.25	14.78	[illegible]	[illegible]	[illegible]	16.84	[illegible]	17.82
47	11.41	11.72	12.02	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.92	15.48	[illegible]	16.57	17.11	17.64	[illegible]	[illegible]
48	11.93	12.25	12.56	[illegible]	[illegible]	14.41	14.71	[illegible]	[illegible]	[illegible]	16.77	17.34	17.91	[illegible]	19.01	[illegible]
49	12.46	[illegible]	13.12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.30	[illegible]	[illegible]	18.13	[illegible]	19.30	[illegible]	20.45
50	12.99	13.34	13.68	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.66	[illegible]	18.97	[illegible]	20.16	20.77	21.37
51	13.54	13.90	14.26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.75	18.42	[illegible]	19.75	[illegible]	[illegible]	21.67	[illegible]
52	14.10	[illegible]	14.86	[illegible]	[illegible]	[illegible]	17.47	[illegible]	18.51	19.21	[illegible]	20.59	21.26	21.94	22.61	23.26
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.14	[illegible]	19.26	19.99	20.72	21.44	22.15	22.85	23.55	[illegible]
54	15.26	15.67	16.07	16.88	17.68	18.48	18.87	19.26	20.04	20.80	21.56	22.31	23.05	23.79	24.51	25.23
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.61	[illegible]	[illegible]	21.63	[illegible]	[illegible]	23.97	24.74	[illegible]	26.24
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.64	22.47	23.29	24.11	24.91	25.71	[illegible]	27.29
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.14	[illegible]	22.46	[illegible]	[illegible]	[illegible]	25.87	[illegible]	[illegible]	[illegible]
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.47	21.93	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.84	27.71	[illegible]	29.41
59	18.34	18.84	19.33	[illegible]	[illegible]	22.25	22.73	23.21	24.15	25.09	26.01	26.93	27.84	28.74	29.63	30.51
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.91	[illegible]	29.78	30.71	[illegible]

* 1KIP=1000 POUNDS

Table 5.--Log weights for scaling lengths of 4 to 32 feet: density index = 32 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=32

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.02	.03	.04	.05	.06	.07	.07	.07	.08	.08	.08	.09	.09	.09	.09	.09
7	.03	.05	.06	.07	.08	.09	.10	.11	.11	.12	.12	.13	.13	.14	.14	.14
8	[illegible]	.06	.08	.10	.11	.13	.14	.14	.15	.16	.17	.18	.19	.19	.20	.20
9	.05	.08	.10	.12	.14	.16	.18	.19	.20	.21	.23	.24	.25	.26	.27	.28
10	.07	.10	.13	.16	.18	.21	.23	.24	.25	.27	.29	.31	.32	.34	.35	.36
11	.08	.12	.16	.19	.22	.25	.28	.30	.31	.34	.36	.38	.40	.42	.44	.46
12	.10	.14	.19	.23	.27	.31	.34	.36	.38	.41	.44	.47	.50	.52	.54	.57
13	.12	.17	.22	.27	.32	.37	.41	.43	.45	.49	.53	.56	.60	.63	.66	.68
14	.13	.20	.25	.32	.37	.43	.48	.51	.53	.58	.62	.66	.71	.74	.78	.82
15	.15	.23	.30	.37	.43	.50	.56	.59	.62	.67	.72	.78	.82	.87	.92	.96
16	.18	.26	.34	.42	.50	.57	.64	.67	.71	.77	.84	.90	.95	1.01	1.06	1.11
17	.20	.30	.39	.48	.56	.65	.73	.77	.81	.88	.95	1.02	1.09	1.15	1.22	1.28
18	.22	.33	.44	.54	.64	.73	.82	.87	.91	1.00	1.08	1.16	1.24	1.31	1.38	1.45
19	.25	.37	.49	.60	.71	.82	.92	.97	1.02	1.12	1.21	1.30	1.39	1.48	1.56	1.64
20	.28	.41	.54	.67	.79	.91	1.03	1.08	1.14	1.25	1.36	1.46	1.56	1.65	1.75	1.84
21	.31	.45	.60	.74	.88	1.01	1.14	1.20	1.26	1.39	1.51	1.62	1.73	1.84	1.95	2.05
22	.34	.50	.66	.81	.96	1.11	1.25	1.32	1.39	1.53	1.66	1.79	1.92	2.04	2.16	2.27
23	.37	.55	.72	.89	1.06	1.22	1.38	1.45	1.53	1.68	1.83	1.97	2.11	2.25	2.38	2.50
24	.40	.60	.79	.97	1.15	1.33	1.51	1.59	1.67	1.84	2.00	2.16	2.31	2.46	2.61	2.75
25	.44	.65	[illegible]	[illegible]	1.26	1.45	1.64	1.73	1.82	2.01	2.18	2.36	2.52	2.69	2.85	3.01
26	.47	.70	.93	1.15	1.36	1.57	1.78	1.88	1.98	2.18	2.37	2.56	2.74	2.92	3.10	3.27
27	.51	.76	1.00	1.24	1.47	1.70	1.92	2.03	2.14	2.36	2.57	2.77	2.97	3.17	3.36	3.55
28	.55	.82	1.08	1.33	1.59	1.83	2.07	2.19	2.31	2.54	2.77	3.00	3.21	3.43	3.64	3.84
29	.59	.88	1.16	1.43	1.70	1.97	2.23	2.36	2.49	2.74	2.99	3.23	3.46	3.69	3.92	4.14
30	.63	.94	1.24	1.54	1.83	2.11	2.39	2.53	2.67	2.94	3.21	3.47	3.72	3.97	4.22	4.46
31	.67	1.00	1.33	1.64	1.95	2.26	2.56	2.71	2.86	3.15	3.43	3.71	3.99	4.26	4.52	4.78
32	.72	1.07	1.41	1.75	[illegible]	2.41	2.74	2.89	3.05	3.36	3.67	3.97	4.26	4.55	4.84	5.12
33	.76	1.14	1.50	1.87	2.22	2.57	2.92	3.09	3.25	3.59	3.91	4.23	4.55	4.86	5.17	5.46
34	.81	1.21	[illegible]	[illegible]	2.36	2.73	3.11	3.28	3.46	3.82	4.16	4.51	4.85	5.18	5.50	5.82
35	.86	1.28	1.70	2.10	2.51	2.90	3.29	3.48	3.68	4.05	4.42	4.79	5.15	5.50	5.85	6.19
36	.91	1.36	1.80	2.23	2.65	3.07	3.49	3.69	3.90	4.30	4.69	5.08	5.46	5.84	6.21	6.57
37	.96	1.43	[illegible]	2.36	2.81	3.25	3.69	3.91	4.12	4.55	4.97	5.38	5.79	6.19	6.58	6.97
38	1.02	1.51	2.00	2.49	2.96	3.43	3.90	4.13	4.36	4.81	5.25	5.69	6.12	6.54	6.96	7.37
39	1.07	1.59	2.11	2.62	3.13	3.62	4.11	4.35	4.59	5.07	5.54	6.00	6.46	6.91	7.35	7.79
40	1.13	1.68	2.22	2.76	3.29	3.81	4.33	4.59	4.84	5.34	5.84	6.33	6.81	7.28	7.75	8.21
41	1.18	1.76	2.34	2.90	3.46	4.01	4.56	4.83	5.09	5.62	6.15	6.66	7.17	7.67	8.17	8.65
42	1.24	1.85	2.45	3.05	3.64	4.21	4.79	5.07	5.35	5.91	6.46	7.00	7.54	8.07	8.59	9.10
43	1.30	1.94	2.57	3.20	3.81	4.42	5.02	5.32	5.62	6.20	6.78	7.35	7.92	8.47	9.02	9.56
44	[illegible]	[illegible]	[illegible]	3.35	[illegible]	4.64	5.27	5.58	5.89	6.50	7.11	7.71	8.31	8.89	9.47	10.04
45	1.43	2.13	[illegible]	3.51	4.18	4.85	5.51	5.84	6.17	6.81	7.45	8.08	8.70	9.32	9.92	10.52
46	1.49	2.22	2.95	3.67	4.37	5.08	5.77	6.11	6.45	7.13	7.80	8.46	9.11	9.75	10.39	11.02
47	1.56	2.32	3.08	3.83	4.57	5.30	6.03	6.39	6.74	7.45	8.15	8.84	9.52	10.20	10.87	[illegible]
48	[illegible]	[illegible]	3.21	4.00	4.77	5.54	6.29	6.67	7.04	7.78	8.51	9.23	9.95	10.65	11.35	12.04
49	1.69	2.53	3.35	4.17	4.97	5.77	6.56	6.95	7.34	8.12	8.88	9.64	10.38	11.12	11.85	12.57
50	1.76	2.63	3.49	4.34	5.18	6.02	6.84	7.25	7.65	8.46	9.26	10.05	10.83	11.60	12.36	13.11
51	1.84	2.74	3.63	4.52	5.40	6.26	7.12	7.55	7.97	8.81	9.64	10.46	11.28	12.08	12.88	13.67
52	1.91	2.85	3.78	[illegible]	5.61	6.52	7.41	7.85	8.29	9.17	[illegible]	10.89	11.74	12.58	13.41	14.23
53	1.98	2.96	[illegible]	[illegible]	[illegible]	6.77	[illegible]	8.16	8.62	9.53	10.44	11.33	12.21	13.08	13.95	14.81
54	2.06	3.07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.49	8.96	9.91	10.84	11.77	12.69	13.60	14.50	15.39
55	2.14	[illegible]	[illegible]	5.27	6.29	7.31	8.31	[illegible]	[illegible]	10.28	11.26	12.22	13.18	14.13	[illegible]	15.99
56	2.21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.62	9.13	9.65	10.67	11.68	12.69	13.68	14.66	15.64	16.60
57	2.29	[illegible]	[illegible]	[illegible]	6.76	7.85	8.93	9.47	10.00	11.06	12.12	13.16	14.19	15.21	16.22	17.22
58	2.38	3.55	4.71	5.86	7.00	8.13	9.26	9.81	10.37	11.47	12.56	13.64	14.70	15.76	16.81	17.85
59	2.46	[illegible]	[illegible]	[illegible]	7.25	8.42	9.58	10.16	10.73	11.87	13.00	14.12	15.23	16.33	17.42	18.50
60	2.54	[illegible]	[illegible]	6.28	7.51	8.71	9.92	10.51	11.11	12.29	13.46	14.62	15.77	16.91	[illegible]	19.15

* 1KIP=1000 POUNDS

Table 6.--Log weights for scaling lengths of 34 to 60 feet: density index = 32 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=32

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.09	.09	.09	.09	.08	.08	.08	.08	.08	.07	.07	.07	.06	.06	.05	.05
7	.14	.14	.14	.14	.14	.14	.14	.14	.14	.13	.13	.13	.12	.12	.11	.11
8	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.20	.20	.20	.19	.19
9	.28	.29	.29	.29	.30	.30	.30	.30	.30	.30	.30	.30	.30	.29	.29	.29
10	.37	.38	.38	.39	.40	.40	.40	.41	.41	.41	.41	.41	.41	.41	.41	.41
11	.47	.48	.49	.50	.51	.52	.52	.53	.53	.54	.54	.55	.55	.55	.55	.55
12	.59	.59	.6[illegible]	.62	.64	.65	.66	.66	.67	.68	.69	.70	.70	.71	.71	.71
13	.71	.72	.73	.76	.78	.80	.81	.81	.83	.84	.86	.87	.88	.89	.89	.90
14	.85	.86	.89	.91	.93	.96	.97	.98	1.00	1.02	1.04	1.06	1.07	1.08	1.10	1.11
15	1.0[illegible]	1.02	1.04	1.07	1.10	1.14	1.15	1.17	1.19	1.22	1.24	1.26	1.28	1.30	1.32	1.33
16	1.16	1.1[illegible]	1.2[illegible]	1.25	1.29	1.33	1.35	1.36	1.40	1.43	1.46	1.49	1.52	1.54	1.56	1.58
17	1.34	1.36	1.39	1.44	1.49	1.53	1.56	1.58	1.62	1.66	1.70	1.73	1.77	1.80	1.83	1.85
18	1.52	1.5[illegible]	1.55	1.64	1.70	1.76	1.78	1.81	1.86	1.91	1.95	2.0[illegible]	2.04	2.08	2.11	2.15
19	1.72	1.75	1.79	1.86	1.93	1.99	2.02	2.06	2.12	2.17	2.23	2.28	2.33	2.37	2.42	2.46
20	1.93	1.97	2.01	2.09	2.17	2.24	2.28	2.32	2.39	2.45	2.52	2.58	2.64	2.69	2.75	2.80
21	2.15	2.2[illegible]	2.24	2.34	2.43	2.51	2.55	2.59	2.67	2.75	2.83	2.90	2.96	3.03	3.09	3.15
22	2.39	2.44	2.49	2.59	2.71	2.79	2.84	2.89	2.98	3.07	3.15	3.23	3.31	3.39	3.46	3.53
23	2.63	2.69	2.75	2.87	2.98	3.09	3.14	3.20	3.30	3.40	3.50	3.59	3.68	3.77	3.85	3.93
24	2.89	2.95	3.02	3.15	3.28	3.40	3.46	3.52	3.64	3.75	3.86	3.96	4.06	4.16	4.26	4.35
25	3.16	3.23	3.31	3.45	3.59	3.73	3.80	3.86	3.99	4.12	4.24	4.36	4.47	4.58	4.69	4.79
26	3.44	3.52	3.60	3.76	3.92	4.07	4.14	4.22	4.36	4.50	4.63	4.77	4.89	5.02	5.14	5.26
27	3.73	3.83	3.91	4.09	4.26	4.43	4.51	4.59	4.75	4.90	5.05	5.20	5.34	5.48	5.61	5.74
28	4.04	4.14	4.24	4.43	4.62	4.80	4.89	4.98	5.15	5.32	5.48	5.64	5.80	5.95	6.10	6.25
29	4.36	4.47	4.57	4.78	4.99	5.18	5.28	5.38	5.57	5.75	5.93	6.11	6.28	6.45	6.61	6.77
30	4.69	4.81	4.92	5.15	5.37	5.59	5.69	5.80	6.00	6.21	6.40	6.60	6.78	6.97	7.15	7.32
31	5.04	5.16	5.[illegible]3	5.[illegible]7	5.77	6.01	6.12	6.23	6.46	6.67	6.89	7.10	7.30	7.51	7.70	7.89
32	5.39	5.53	5.66	5.92	6.18	6.43	6.56	6.68	6.92	7.16	7.39	7.62	7.84	8.06	8.28	8.48
33	5.76	5.90	6.05	6.33	6.61	6.88	7.01	7.15	7.41	7.66	7.92	8.16	8.40	8.64	8.87	9.10
34	6.14	6.29	6.45	6.75	7.[illegible]	7.34	7.48	7.63	7.91	8.19	8.46	8.72	8.98	9.24	9.49	9.73
35	6.53	6.70	6.86	7.18	7.5[illegible]	7.82	7.97	8.12	8.43	8.72	9.01	9.30	9.58	9.85	10.12	10.39
36	6.93	7.11	7.29	7.63	7.97	8.31	8.47	8.64	8.96	9.28	9.59	9.90	10.2[illegible]	10.49	10.78	11.06
37	7.35	7.54	7.72	8.09	8.46	8.81	8.99	9.17	9.51	9.85	10.18	10.51	10.83	11.15	11.46	11.76
38	7.78	7.98	8.18	8.57	8.96	9.34	9.52	9.71	10.08	10.44	10.79	11.14	11.49	11.83	12.16	12.48
39	8.22	8.43	8.64	9.06	9.47	9.87	10.07	10.27	10.66	11.05	11.42	11.80	12.16	12.52	12.88	13.22
40	8.67	8.89	9.12	9.56	9.[illegible]	10.42	10.63	10.84	11.26	11.67	12.07	12.47	12.86	13.24	13.62	13.99
41	9.13	9.37	9.61	10.07	10.54	10.99	11.21	11.44	11.88	12.31	12.74	13.16	13.57	13.98	14.38	14.77
42	9.61	9.86	10.11	10.60	11.09	11.57	11.81	12.04	12.51	12.97	13.42	13.86	14.30	14.73	15.16	15.58
43	10.1[illegible]	10.36	10.63	11.15	11.66	12.17	12.42	12.66	13.16	13.64	14.12	14.59	15.05	15.51	15.96	16.40
44	10.60	10.88	11.16	11.70	12.24	12.78	13.04	13.30	13.82	14.33	14.84	15.33	15.82	16.31	16.78	17.25
45	11.11	11.41	11.70	12.27	12.84	13.40	13.68	13.96	14.50	15.04	15.57	16.10	16.61	17.12	17.63	18.12
46	11.64	11.95	12.25	12.86	13.45	14.04	14.34	14.63	15.20	15.77	16.33	16.88	17.42	17.96	18.49	19.01
47	12.17	12.50	12.82	13.45	14.[illegible]8	14.70	15.01	15.31	15.91	16.51	17.10	17.68	18.25	18.82	19.37	19.92
48	12.72	13.[illegible]	13.4[illegible]	14.[illegible]6	14.72	15.37	15.69	16.01	16.64	17.27	17.89	18.50	19.10	19.69	20.28	20.86
49	13.29	13.64	13.99	14.69	15.38	16.06	16.39	16.73	17.39	18.05	18.69	19.33	19.97	20.59	21.21	21.81
50	13.86	14.23	14.6[illegible]	15.32	16.[illegible]4	16.76	17.11	17.46	18.15	18.84	19.52	20.19	20.85	21.51	22.15	22.79
51	14.44	14.8[illegible]	15.21	15.98	16.73	17.47	17.84	18.21	18.93	19.65	20.36	21.06	21.76	22.44	23.12	23.79
52	15.04	15.44	15.85	16.64	17.43	18.20	18.59	18.97	19.73	20.48	21.22	21.96	22.68	23.40	24.11	24.81
53	15.65	16.[illegible]7	16.49	17.32	18.14	18.95	19.35	19.75	20.54	21.33	22.10	22.87	23.63	24.38	25.12	25.85
54	16.27	16.71	17.15	18.[illegible]1	18.86	19.71	20.13	20.54	21.37	22.19	23.00	23.80	24.59	25.37	26.14	26.91
55	16.91	17.36	17.82	18.71	19.60	20.48	20.92	21.36	22.22	23.07	23.91	24.75	25.57	26.39	27.19	27.99
56	17.55	18.03	18.5[illegible]	19.43	20.36	21.27	21.73	22.19	23.08	23.97	24.84	25.71	26.57	27.42	28.27	29.10
57	18.21	18.7[illegible]	19.19	20.17	21.13	22.08	22.55	23.02	23.96	24.88	25.79	26.70	27.59	28.48	29.36	30.22
58	18.88	19.39	19.9[illegible]	20.91	21.91	22.90	23.39	23.88	24.85	25.81	26.76	27.70	28.63	29.56	30.47	31.37
59	19.56	20.1[illegible]	20.62	21.67	22.71	23.74	24.25	24.75	25.76	26.76	27.75	28.73	29.69	30.65	31.60	32.54
60	20.26	20.81	21.36	22.44	23.52	24.59	25.12	25.64	26.69	27.72	28.75	29.77	30.77	31.77	32.75	33.73

* KIPS

Table 7.--Log weights for scaling lengths of 4 to 32 feet: density index = 34 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=34 — SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.02	.04	.05	.05	.06	.07	.08	.08	.08	.08	.09	.09	.09	.09	.09	.09
7	.03	.05	.06	.08	.09	.10	.11	.11	.12	.12	.13	.14	.14	.14	.15	.15
8	.05	.07	.08	.10	.12	.13	.15	.15	.16	.17	.18	.19	.20	.20	.21	.22
9	.06	.08	.11	.13	.15	.17	.19	.20	.21	.23	.24	.25	.27	.28	.29	.29
10	.07	.11	.14	.17	.19	.22	.24	.26	.27	.29	.31	.33	.34	.36	.37	.38
11	.09	.13	.17	.20	.24	.27	.30	.32	.33	.36	.38	.41	.43	.45	.47	.49
12	.10	.15	.20	.24	.29	.33	.37	.38	.40	.44	.47	.50	.53	.55	.58	.60
13	.12	.18	.24	.29	.34	.39	.43	.46	.48	.52	.56	.60	.63	.67	.70	.73
14	.14	.21	.28	.34	.40	.46	.51	.54	.56	.61	.66	.71	.75	.79	.83	.87
15	.16	.24	.32	.39	.46	.53	.59	.62	.65	.71	.77	.82	.88	.93	.97	1.02
16	.19	.28	.36	.45	.53	.60	.68	.72	.75	.82	.89	.95	1.01	1.07	1.13	1.18
17	.21	.31	.41	.51	.60	.69	.77	.82	.86	.94	1.01	1.09	1.16	1.23	1.29	1.36
18	.24	.35	.46	.57	.67	.78	.87	.92	.97	1.06	1.15	1.23	1.31	1.39	1.47	1.54
19	.27	.39	.52	.64	.76	.87	.98	1.03	1.09	1.19	1.29	1.39	1.48	1.57	1.66	1.74
20	.30	.44	.58	.71	.84	.97	1.09	1.15	1.21	1.33	1.44	1.55	1.66	1.76	1.86	1.95
21	.33	.48	.64	.78	.93	1.07	1.21	1.28	1.34	1.47	1.60	1.72	1.84	1.96	2.07	2.18
22	.36	.53	.70	.86	1.02	1.18	1.33	1.41	1.48	1.63	1.77	1.90	2.04	2.17	2.29	2.41
23	.39	.58	.77	.95	1.12	1.30	1.46	1.55	1.63	1.79	1.94	2.09	2.24	2.39	2.53	2.66
24	.43	.63	.84	1.03	1.23	1.42	1.60	1.69	1.78	1.96	2.13	2.29	2.46	2.62	2.77	2.92
25	.46	.69	.91	1.12	1.37	1.54	1.74	1.84	1.94	2.13	2.32	2.50	2.68	2.86	3.03	3.19
26	[illegible]	.75	.99	1.22	1.45	1.67	1.89	2.00	2.10	2.31	2.52	2.72	2.92	3.11	3.29	3.48
27	.54	.80	1.06	1.32	1.56	1.81	2.04	2.16	2.28	2.51	2.73	2.95	3.16	3.37	3.57	3.77
28	.58	.87	1.14	1.42	1.68	1.95	2.20	2.33	2.46	2.70	2.95	3.18	3.42	3.64	3.86	4.08
29	.63	.93	1.23	1.52	1.81	2.09	2.37	2.51	2.64	2.91	3.17	3.43	3.68	3.93	4.17	4.40
30	.67	1.00	1.32	1.63	1.94	2.25	2.54	2.69	2.84	3.12	3.41	3.68	3.95	4.22	4.48	4.74
31	.72	1.06	1.41	1.75	2.08	2.40	2.72	2.88	3.04	3.35	3.65	3.95	4.24	4.52	4.80	5.08
32	.76	1.14	1.50	1.86	2.22	2.56	2.91	3.08	3.24	3.57	3.90	4.22	4.53	4.84	5.14	5.44
33	.81	1.21	1.60	1.95	2.36	2.73	3.10	3.28	3.46	3.81	4.16	4.50	4.83	5.16	5.49	5.81
34	.86	1.28	1.71	2.11	2.51	2.90	3.29	3.49	3.68	4.05	4.43	4.79	5.15	5.50	5.85	6.19
35	.91	1.36	1.8[illegible]	2.24	2.66	3.08	3.50	3.70	3.90	4.31	4.70	5.09	5.47	5.85	6.22	6.58
36	.97	1.44	1.91	2.37	2.82	3.27	3.71	3.92	4.14	4.57	4.98	5.40	5.80	6.20	6.60	6.99
37	1.02	1.52	2.02	2.50	2.96	3.46	3.92	4.15	4.38	4.83	5.28	5.72	6.15	6.57	6.99	7.40
38	1.08	1.61	2.13	2.64	3.15	3.65	4.14	4.39	4.63	5.11	5.58	6.04	6.50	6.95	7.40	7.83
39	1.14	1.69	2.24	2.79	3.32	3.85	4.37	4.63	4.88	5.39	5.89	6.38	6.86	7.34	7.81	8.27
40	1.20	1.78	2.36	2.93	3.50	4.05	4.60	4.87	5.14	5.68	6.20	6.72	7.24	7.74	8.24	8.73
41	1.26	[illegible]	2.48	[illegible]	3.68	4.26	4.84	5.13	5.41	5.97	6.53	7.08	7.62	8.15	8.68	9.19
42	1.32	1.97	2.61	3.24	3.86	4.48	5.09	5.39	5.69	6.28	6.86	7.44	8.01	8.57	9.13	9.67
43	[illegible]	[illegible]	2.73	3.40	4.05	4.70	5.34	5.65	5.97	6.59	7.21	7.81	8.41	9.00	9.59	10.16
44	1.45	[illegible]	2.86	3.50	4.25	4.92	5.59	5.93	6.26	6.91	7.56	8.19	8.82	9.45	10.06	10.66
45	1.52	2.26	3.00	3.73	4.44	5.16	5.86	6.21	6.55	7.24	7.92	8.58	9.25	9.90	10.54	11.18
46	1.58	[illegible]	3.13	[illegible]	4.65	5.39	6.13	6.49	6.85	7.57	8.28	8.98	9.68	10.36	11.04	11.71
47	1.65	[illegible]	3.27	[illegible]	4.86	5.63	6.40	6.78	7.16	7.92	8.66	9.39	10.12	10.84	11.54	12.24
48	[illegible]	[illegible]	[illegible]	4.25	5.07	5.88	6.68	7.08	7.48	8.27	9.04	9.81	10.57	11.32	12.06	12.79
49	[illegible]	[illegible]	[illegible]	4.43	5.29	6.13	6.97	7.39	7.80	8.62	9.43	10.24	11.03	11.82	12.59	13.36
50	[illegible]	[illegible]	3.71	4.61	5.51	6.39	7.27	7.70	8.13	8.99	9.84	10.67	11.50	12.32	13.13	13.93
51	[illegible]	2.91	[illegible]	[illegible]	[illegible]	6.65	7.57	8.02	8.47	9.36	10.24	11.12	11.98	12.84	13.68	14.52
52	2.03	[illegible]	[illegible]	4.99	[illegible]	6.92	7.87	8.34	8.81	9.74	10.66	11.57	12.47	13.36	14.25	15.12
53	2.11	3.14	4.17	5.19	6.21	7.20	8.18	8.67	9.16	10.13	11.09	12.04	12.97	13.90	14.82	15.73
54	2.19	3.27	[illegible]	5.39	[illegible]	7.47	8.56	9.01	9.52	10.52	11.52	12.51	13.48	14.45	15.41	16.35
55	2.27	3.39	[illegible]	[illegible]	6.68	7.76	8.83	9.35	9.88	10.93	11.95	12.99	14.00	15.01	16.00	16.99
56	2.35	[illegible]	[illegible]	[illegible]	6.93	8.05	9.16	9.71	10.25	11.34	12.41	13.48	14.53	15.58	16.61	17.64
57	2.44	3.64	[illegible]	[illegible]	7.18	8.34	9.49	10.06	10.63	11.76	12.87	13.98	15.07	16.16	17.23	18.30
58	2.52	3.77	[illegible]	6.23	7.44	8.64	9.83	10.42	11.01	12.18	13.34	14.49	15.62	16.75	17.86	18.97
59	2.61	[illegible]	5.18	6.45	7.70	8.95	10.18	10.79	11.40	12.62	13.82	15.00	16.18	17.35	18.51	19.65
60	2.71	[illegible]	[illegible]	[illegible]	7.97	9.26	10.54	11.17	11.80	13.06	14.30	15.53	16.75	17.96	19.16	20.35

* 1KIP=1,[illegible] POUNDS

Table 8.--Log weights for scaling lengths of 34 to 60 feet: density index = 34 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=34

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.09	.09	.09	.09	.09	.09	.09	.08	.08	.08	.07	.07	.07	.06	.06	.05
7	.15	.15	.15	.15	.15	.15	.15	.15	.14	.14	.14	.13	.13	.12	.12	.11
8	.22	.22	.22	.22	.22	.23	.22	.22	.22	.22	.22	.22	.21	.21	.20	.20
9	.30	.30	.31	.31	.31	.32	.32	.32	.32	.32	.32	.32	.32	.31	.31	.30
10	.39	.40	.41	.41	.42	.43	.43	.43	.43	.44	.44	.44	.44	.44	.44	.43
11	.50	.51	.52	.53	.54	.55	.55	.56	.57	.57	.58	.58	.58	.58	.59	.58
12	.62	.63	.64	.66	.68	.69	.70	.70	.72	.73	.73	.74	.75	.75	.76	.76
13	.76	.77	.78	.80	.83	.85	.86	.87	.88	.90	.91	.92	.93	.94	.95	.96
14	.90	.92	.93	.96	.99	1.02	1.03	1.04	1.07	1.09	1.11	1.12	1.14	1.15	1.16	1.18
15	1.06	1.08	1.10	1.14	1.17	1.21	1.22	1.24	1.27	1.29	1.32	1.34	1.36	1.38	1.40	1.42
16	[illegible]	[illegible]	[illegible]	[illegible]	1.37	1.41	1.43	1.45	1.49	1.52	1.55	1.58	1.61	1.64	1.66	1.68
17	1.42	1.44	1.47	1.53	1.58	1.63	1.65	1.68	1.72	1.77	1.81	1.84	1.88	1.91	1.94	1.97
18	1.61	1.65	1.68	1.75	1.81	1.87	1.89	1.92	1.98	2.03	2.08	2.12	2.17	2.21	2.25	2.28
19	1.82	1.86	1.90	1.98	2.05	2.12	2.15	2.18	2.25	2.31	2.37	2.42	2.47	2.52	2.57	2.61
20	2.05	2.09	2.14	2.22	2.31	2.39	2.42	2.46	2.54	2.61	2.67	2.74	2.80	2.86	2.92	2.97
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.67	2.71	2.76	2.84	2.92	[illegible]	3.08	3.15	3.22	3.29	3.35
22	[illegible]	[illegible]	[illegible]	2.76	[illegible]	2.97	[illegible]	[illegible]	3.17	3.26	3.35	3.44	3.52	3.60	3.68	3.75
23	2.79	2.86	2.92	3.05	3.17	3.28	3.34	3.40	3.51	3.61	3.71	3.81	3.91	4.00	4.09	4.17
24	3.07	3.14	3.21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.86	3.99	4.10	4.21	4.32	4.42	4.52	4.62
25	3.35	3.43	3.51	3.67	3.82	3.96	4.03	4.10	4.24	4.37	4.50	4.63	4.75	4.87	4.98	5.09
26	3.66	3.74	3.83	4.00	4.16	4.32	4.40	4.48	4.63	4.78	4.92	5.06	5.20	5.33	5.46	5.58
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.79	4.88	5.04	5.21	5.37	5.52	5.67	5.82	5.96	6.10
28	4.29	4.43	[illegible]	4.71	4.90	5.10	5.19	5.29	5.47	5.65	5.83	6.00	6.16	6.33	6.48	6.64
29	4.63	4.75	4.86	5.08	5.30	5.51	5.61	5.71	5.92	6.11	6.31	6.49	6.68	6.85	7.03	7.20
30	[illegible]	5.11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.16	6.38	6.59	[illegible]	7.01	7.21	7.40	[illegible]	7.76
31	5.35	5.48	5.61	5.87	6.13	6.38	6.50	6.62	6.86	7.09	7.32	7.54	7.76	7.97	8.18	8.39
32	5.73	5.87	6.01	6.29	6.57	6.84	6.97	7.10	7.36	7.61	7.86	8.10	8.34	8.57	8.79	9.01
33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.45	7.59	7.87	8.14	8.41	8.67	8.93	9.18	[illegible]	9.67
34	6.52	6.69	6.85	7.17	7.49	7.80	7.95	8.10	8.40	8.70	8.98	9.27	9.54	9.81	10.08	10.34
35	6.94	7.11	7.29	7.63	7.97	8.31	8.47	8.63	8.95	9.27	9.58	9.88	10.18	10.47	10.76	11.04
36	[illegible]	[illegible]	[illegible]	8.11	8.47	[illegible]	[illegible]	9.19	[illegible]	9.86	10.19	10.51	[illegible]	11.15	11.45	11.76
37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.74	10.11	[illegible]	[illegible]	11.17	11.51	11.85	12.17	12.50
38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.12	[illegible]	[illegible]	[illegible]	11.47	[illegible]	12.21	12.56	12.92	13.26
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.74	12.14	[illegible]	12.92	[illegible]	13.68	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.40	12.83	[illegible]	[illegible]	[illegible]	14.47	14.86
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.91	12.15	[illegible]	[illegible]	[illegible]	[illegible]	14.42	14.85	15.28	15.69
42	10.21	10.48	10.74	11.27	11.78	12.29	12.54	12.79	13.29	13.78	14.26	14.73	15.20	15.65	16.11	16.55
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.19	[illegible]	[illegible]	14.49	[illegible]	[illegible]	15.99	16.48	[illegible]	17.43
44	11.26	11.56	11.85	12.43	13.01	13.57	13.86	14.13	14.68	15.23	15.76	16.29	16.81	17.33	17.83	18.33
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.41	15.98	16.55	17.10	17.65	18.19	18.73	[illegible]
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.23	[illegible]	16.15	16.75	[illegible]	[illegible]	[illegible]	19.08	19.65	[illegible]
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.27	16.91	17.54	18.17	[illegible]	19.39	19.99	[illegible]	21.17
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.16
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.48	19.18	[illegible]	[illegible]	21.21	21.88	[illegible]	23.18
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.45	[illegible]	[illegible]	[illegible]	24.21
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.64	[illegible]	[illegible]	23.85	[illegible]	25.27
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20.16	[illegible]	21.76	[illegible]	[illegible]	[illegible]	24.86	[illegible]	[illegible]
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
54	[illegible]	[illegible]	[illegible]	19.14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.44	[illegible]	26.13	26.96	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25.41	[illegible]	27.17	[illegible]	[illegible]	29.74
56	18.65	19.15	19.65	20.65	21.63	22.60	23.09	23.57	24.52	25.46	26.46	27.32	28.23	29.14	30.03	30.92
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.46	[illegible]	26.44	27.41	[illegible]	[illegible]	[illegible]	[illegible]	32.11
58	20.06	20.61	21.15	22.22	23.28	24.33	24.85	25.37	26.40	27.42	28.43	29.43	30.42	31.40	32.37	33.33
59	20.79	21.35	21.91	23.03	24.13	25.22	25.76	26.30	27.37	28.43	29.48	30.52	31.55	32.57	33.58	34.57
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29.46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35.84

* 1 KIP = [illegible]

Table 9.--Log weights for scaling lengths of 4 to 32 feet: density index = 36 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=36

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	[illegible]	.04	[illegible]	[illegible]	[illegible]	.07	.08	[illegible]	.08	[illegible]	.09	.10	.10	.10	[illegible]	[illegible]
7	[illegible]	[illegible]	.07	.08	[illegible]	.10	.11	.12	.12	.13	.14	.14	.15	.15	.16	.16
8	[illegible]	.07	[illegible]	.11	.13	.14	.16	.16	.17	.18	.19	.20	.21	.22	.22	.23
9	.06	.09	.12	.14	.16	.18	.20	.21	.22	.24	.25	.27	.28	.29	.30	.31
10	.08	.11	.14	.18	.21	.23	.26	.27	.28	.31	.33	.35	.36	.38	.39	.41
11	.09	.14	.18	.22	.25	.29	.32	.34	.35	.38	.41	.43	.45	.48	.50	.51
12	.11	.16	.21	.26	.30	.35	.39	.41	.42	.46	.50	.53	.56	.59	.61	.64
13	.13	.19	.25	.31	.36	.41	.46	.49	.51	.55	.59	.63	.67	.71	.74	.77
14	.15	.22	.29	.36	.42	.48	.54	.57	.60	.65	.70	.75	.79	.84	.88	.92
15	.17	.26	.34	.41	.49	.56	.63	.66	.69	.76	.82	.87	.93	.98	1.03	1.08
16	.20	.29	.38	.47	.56	.64	.72	.76	.80	.87	.94	1.01	1.07	1.13	1.19	1.25
17	.22	.33	.44	.54	.63	.73	.82	.86	.91	.99	1.07	1.15	1.23	1.30	1.37	1.44
18	.25	.37	.49	.60	.71	.82	.92	.97	1.02	1.12	1.21	1.30	1.39	1.48	1.56	1.63
19	.28	.42	.55	.68	.81	.92	1.04	1.09	1.15	1.26	1.37	1.47	1.57	1.66	1.76	1.84
20	.31	.46	.61	.75	.89	1.02	1.16	1.22	1.28	1.41	1.52	1.64	1.75	1.86	1.97	2.07
21	.35	.51	.67	.83	.98	1.13	1.28	1.35	1.42	1.56	1.69	1.82	1.95	2.07	2.19	2.31
22	.38	.56	.74	.91	1.08	1.25	1.41	1.49	1.57	1.72	1.87	2.02	2.16	2.29	2.43	2.55
23	.41	.62	.81	1.00	1.19	1.37	1.55	1.64	1.72	1.89	2.06	2.22	2.37	2.53	2.67	2.82
24	.45	.67	.88	1.09	1.30	1.50	1.69	1.79	1.88	2.07	2.25	2.43	2.60	2.77	2.93	3.09
25	.49	.73	.96	1.19	1.41	1.63	1.84	1.95	2.05	2.26	2.46	2.65	2.84	3.02	3.20	3.38
26	.53	.79	1.04	1.29	1.53	1.77	2.00	2.12	2.23	2.45	2.67	2.88	3.09	3.29	3.49	3.68
27	.57	.85	1.13	1.39	1.66	1.91	2.16	2.29	2.41	2.65	2.89	3.12	3.35	3.57	3.79	4.00
28	.62	.92	1.21	1.50	1.78	2.06	2.33	2.47	2.60	2.86	3.12	3.37	3.62	3.86	4.09	4.32
29	.66	.98	1.30	1.61	1.92	2.22	2.51	2.66	2.80	3.08	3.36	3.63	3.90	4.16	4.41	4.66
30	.71	1.05	1.39	1.73	2.06	2.38	2.69	2.85	3.00	3.31	3.61	3.90	4.19	4.47	4.74	5.01
31	.76	1.13	1.49	1.85	2.20	2.54	2.88	3.05	3.22	3.54	3.86	4.18	4.49	4.79	5.09	5.38
32	.81	1.20	1.59	1.97	2.35	2.72	3.08	3.26	3.43	3.78	4.13	4.47	4.80	5.12	5.44	5.76
33	.86	1.28	1.69	2.10	2.50	2.89	3.28	3.47	3.66	4.03	4.40	4.76	5.12	5.47	5.81	6.15
34	.91	[illegible]	[illegible]	2.23	2.66	3.08	3.49	3.69	3.89	4.29	4.69	5.07	5.45	5.82	6.19	6.55
35	.97	1.44	1.91	2.37	2.82	[illegible]	3.70	3.92	4.13	4.56	4.98	5.39	5.79	6.19	6.58	6.97
36	1.02	1.53	2.02	2.51	2.99	3.46	3.92	4.15	4.38	4.83	5.28	5.72	6.15	6.57	6.99	7.40
37	1.08	1.61	2.14	2.65	3.16	3.66	4.15	4.40	4.64	5.12	5.59	6.05	6.51	6.96	7.40	7.84
38	1.14	[illegible]	[illegible]	2.80	[illegible]	3.86	4.39	4.64	4.90	5.41	5.91	6.40	6.88	7.36	7.83	8.29
39	[illegible]	1.79	2.38	2.95	3.52	4.07	4.62	4.90	5.17	5.70	6.23	6.75	7.27	7.77	8.27	8.76
40	1.27	1.89	2.50	3.11	3.70	4.29	4.87	5.16	5.45	6.01	6.57	7.12	7.66	8.20	8.72	9.24
41	[illegible]	1.98	2.63	3.27	3.90	4.51	5.13	5.43	5.73	6.33	6.91	7.49	8.07	8.63	9.19	9.73
42	1.40	2.08	2.76	3.43	4.09	4.74	5.39	5.70	6.02	6.65	7.27	7.88	8.48	9.08	9.66	10.24
43	1.46	2.18	2.89	3.60	4.29	4.98	5.65	5.99	6.32	6.98	7.63	8.27	8.91	9.53	10.15	10.76
44	[illegible]	[illegible]	[illegible]	3.77	4.50	5.21	5.92	6.28	6.63	7.32	[illegible]	[illegible]	9.34	[illegible]	[illegible]	11.29
45	1.61	[illegible]	3.17	3.94	4.71	5.46	6.20	6.57	6.94	7.66	8.38	[illegible]	9.70	10.48	11.16	11.84
46	[illegible]	[illegible]	3.32	4.12	4.92	5.71	6.49	6.87	7.26	8.02	8.77	9.51	10.25	10.97	11.69	12.39
47	1.75	2.61	3.47	4.31	5.14	5.97	6.78	7.19	7.59	8.38	9.17	9.95	10.71	11.47	12.22	12.96
48	[illegible]	[illegible]	3.62	[illegible]	5.37	6.23	7.08	7.50	7.92	[illegible]	9.57	10.39	11.19	11.99	12.77	13.55
49	1.91	[illegible]	3.77	[illegible]	[illegible]	6.49	7.38	7.82	8.26	9.13	9.99	10.84	11.68	12.51	[illegible]	14.14
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.77	7.69	8.15	8.61	9.52	10.41	[illegible]	12.18	13.05	[illegible]	14.75
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.01	[illegible]	8.97	9.91	[illegible]	11.77	12.69	13.59	[illegible]	15.37
52	[illegible]	[illegible]	[illegible]	[illegible]	6.31	[illegible]	[illegible]	8.87	9.33	10.31	11.29	12.25	13.21	14.15	[illegible]	16.01
53	[illegible]	[illegible]	[illegible]	[illegible]	6.56	7.62	8.66	9.18	9.71	10.73	11.74	12.74	13.74	14.72	[illegible]	16.66
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.91	9.00	9.54	10.08	11.14	[illegible]	13.24	14.28	[illegible]	16.31	17.32
55	[illegible]	[illegible]	[illegible]	[illegible]	7.07	[illegible]	9.34	9.91	10.46	11.57	12.67	13.75	14.83	15.89	[illegible]	17.99
56	[illegible]	[illegible]	[illegible]	6.14	7.34	8.52	9.69	10.28	10.86	12.01	13.14	14.27	15.39	16.50	17.59	18.67
57	[illegible]	[illegible]	[illegible]	6.37	7.61	[illegible]	[illegible]	[illegible]	11.25	12.45	13.63	[illegible]	15.96	17.11	[illegible]	19.37
58	2.67	3.99	5.30	6.60	7.88	9.15	10.41	11.04	11.66	12.90	14.12	15.34	16.54	17.73	18.92	20.08
59	2.77	4.13	5.49	6.83	8.16	9.47	10.78	11.43	12.08	13.36	14.63	15.89	17.14	18.37	19.60	20.81
60	2.86	4.27	5.67	7.06	8.44	9.80	11.16	11.83	12.50	13.82	15.14	16.45	17.74	19.02	20.29	21.55

* 1KIP=1000 POUNDS

Table 10.--Log weights for scaling lengths of 34 to 60 feet: density index = 36 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=36

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.10	.10	.10	.10	.10	.09	.09	.09	.09	.08	.08	.07	.07	.07	.06	.06
7	.16	.16	.16	.16	.16	.16	.16	.16	.15	.15	.15	.14	.14	.13	.13	.12
8	.23	.23	.23	.24	.24	.24	.24	.24	.24	.23	.23	.23	.22	.22	.21	.21
9	.32	.32	.32	.33	.33	.34	.34	.34	.34	.34	.34	.34	.33	.33	.33	.32
10	.42	.42	.43	.44	.44	.45	.45	.46	.46	.46	.46	.47	.47	.46	.46	.46
11	.53	.54	.55	.56	.57	.58	.59	.59	.60	.61	.61	.62	.62	.62	.62	.62
12	.66	.67	.68	.70	.72	.73	.74	.75	.76	.77	.78	.79	.79	.80	.80	.80
13	.80	.81	.83	.85	.88	.90	.91	.92	.93	.95	.96	.98	.99	1.00	1.01	1.01
14	.95	.97	.99	1.02	1.05	1.08	1.09	1.10	1.13	1.15	1.17	1.19	1.21	1.22	1.23	1.24
15	1.12	1.14	1.16	1.20	1.24	1.28	1.29	1.31	1.34	1.37	1.40	1.42	1.45	1.47	1.48	1.50
16	[illegible]	[illegible]	[illegible]	[illegible]	1.45	1.49	1.51	1.53	1.57	1.61	1.64	1.68	1.71	1.73	1.76	1.78
17	1.50	1.53	1.56	1.62	1.67	1.73	1.75	1.78	1.82	1.87	1.91	1.95	1.99	2.02	2.06	2.09
18	1.71	1.74	1.78	1.85	1.91	1.98	2.01	2.04	2.09	2.15	2.20	2.25	2.29	2.34	2.38	2.42
19	[illegible]	1.97	2.01	2.09	2.17	2.24	2.28	2.31	2.38	2.44	2.51	2.56	2.62	2.67	2.72	2.77
20	2.17	2.21	2.26	2.35	2.44	2.53	2.57	2.61	2.69	2.76	2.83	2.90	2.97	3.03	3.09	3.15
21	2.42	2.47	2.52	2.63	2.73	2.83	2.87	2.92	3.01	3.10	3.18	3.26	3.34	3.41	3.48	3.55
22	2.68	2.74	2.80	2.92	3.03	3.14	3.20	3.25	3.35	3.45	3.55	3.64	3.73	3.81	3.89	3.97
23	2.96	3.03	3.09	3.22	3.35	3.48	3.54	3.60	3.71	3.82	3.93	4.04	4.14	4.24	4.33	4.42
24	3.25	3.32	3.40	3.55	3.69	3.83	3.89	3.96	4.09	4.22	4.34	4.46	4.57	4.68	4.79	4.89
25	[illegible]	3.64	3.72	3.88	[illegible]	4.19	4.27	4.34	4.49	[illegible]	4.77	4.90	5.03	5.15	5.27	5.39
26	3.87	3.96	4.05	4.23	4.41	4.58	4.66	4.74	4.91	5.06	5.21	5.36	5.51	5.65	5.78	5.91
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.98	5.07	5.16	5.34	5.51	5.69	5.85	6.01	6.16	6.31	6.46
28	4.55	4.66	4.77	4.98	5.19	5.40	5.50	5.60	5.79	5.98	6.17	6.35	6.53	6.70	6.86	7.03
29	[illegible]	[illegible]	[illegible]	[illegible]	5.61	5.83	5.94	6.05	6.26	6.47	6.68	6.87	7.07	7.26	7.44	7.62
30	5.28	5.41	5.54	5.79	6.04	6.28	6.40	6.52	6.75	6.98	7.20	7.42	7.63	7.84	8.04	8.24
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.75	6.88	7.01	7.26	7.51	7.75	7.99	8.22	8.44	8.66	8.88
32	6.06	6.22	6.37	6.66	6.95	7.24	7.38	7.52	7.79	8.06	8.32	8.57	8.83	9.07	9.31	9.54
33	[illegible]	[illegible]	[illegible]	7.12	7.43	7.74	7.89	8.04	8.33	8.62	8.91	9.18	9.45	9.72	9.98	10.23
34	6.90	7.08	7.25	7.59	7.92	8.25	8.42	8.58	8.90	9.21	9.51	9.81	10.10	10.39	10.67	10.95
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.79	8.97	9.14	9.48	9.81	10.14	10.46	10.78	11.09	11.39	11.69
36	7.80	8.00	8.20	8.59	8.97	9.35	9.53	9.72	10.08	10.44	10.79	11.13	11.47	11.80	12.13	12.45
37	[illegible]	[illegible]	[illegible]	9.11	9.51	9.92	10.11	10.31	10.70	11.08	11.46	11.82	12.19	12.54	12.89	13.23
38	[illegible]	[illegible]	[illegible]	9.64	[illegible]	10.51	10.71	10.92	11.34	11.74	12.14	12.54	12.92	13.30	13.68	14.04
39	[illegible]	[illegible]	[illegible]	10.19	10.65	11.11	11.33	11.55	11.99	12.43	12.85	13.27	13.68	14.09	14.49	14.88
40	[illegible]	[illegible]	[illegible]	10.76	11.24	11.73	11.96	12.20	12.67	13.13	13.58	14.02	14.46	14.89	15.32	15.74
41	[illegible]	[illegible]	[illegible]	11.33	11.85	12.36	12.61	12.86	13.36	13.85	14.33	14.80	15.27	15.72	16.17	16.62
42	10.81	11.09	11.37	11.93	12.48	13.02	13.28	13.55	14.07	14.59	15.10	15.60	16.09	16.57	17.05	17.52
43	11.36	11.66	11.95	12.54	13.12	13.69	13.97	14.25	14.80	15.35	15.88	16.41	16.93	17.45	17.96	18.45
44	[illegible]	[illegible]	[illegible]	13.17	13.77	14.37	14.67	14.97	15.55	16.12	16.69	17.25	17.80	18.34	18.88	19.41
45	[illegible]	[illegible]	[illegible]	13.81	14.45	[illegible]	15.39	15.70	16.31	16.92	17.52	18.11	18.69	19.26	19.83	20.39
46	[illegible]	[illegible]	[illegible]	14.46	15.14	[illegible]	16.13	16.45	17.10	17.74	18.37	18.99	19.60	20.21	20.80	21.39
47	[illegible]	[illegible]	[illegible]	[illegible]	15.84	16.54	16.88	17.22	17.90	18.57	19.24	19.89	20.53	21.17	21.80	22.41
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.29	17.65	18.01	18.73	19.43	20.12	20.81	21.49	22.15	22.81	23.47
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.44	18.82	19.57	20.30	21.03	21.75	22.46	23.16	23.86	24.54
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.25	19.64	20.42	21.20	21.96	22.71	23.46	24.19	24.92	25.64
51	[illegible]	[illegible]	[illegible]	17.97	[illegible]	[illegible]	20.07	20.49	21.30	22.11	22.91	23.70	24.48	25.25	26.01	26.76
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20.91	21.34	22.20	23.04	23.88	24.70	25.52	26.32	27.12	27.91
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.32	21.77	22.22	23.11	23.99	24.86	25.73	26.58	27.42	28.26	29.08
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.17	22.64	23.11	24.04	24.96	25.87	26.77	27.66	28.54	29.41	30.27
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.04	23.54	24.02	24.99	25.95	26.90	27.84	28.77	29.69	30.59	31.49
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.93	24.45	24.96	25.96	26.96	27.95	28.93	29.90	30.85	31.80	32.73
57	[illegible]	21.04	21.59	22.69	23.77	24.84	25.37	25.90	26.95	27.99	29.02	30.04	31.04	32.04	33.03	34.00
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25.76	26.32	26.87	27.96	29.04	30.11	31.17	32.21	33.25	34.28	35.29
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.73	27.28	27.85	28.98	30.10	31.22	32.32	33.41	34.48	35.55	36.61
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.66	28.25	28.85	[illegible]	31.19	32.34	33.49	34.62	35.74	36.85	37.95

Table 11.--Log weights for scaling lengths of 4 to 32 feet: density index = 38 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=38

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.03	.04	.05	.06	.07	.08	.08	.09	.09	.09	.10	.10	.10	.11	.11	.11
7	.04	.06	.07	.09	.10	.11	.12	.13	.13	.14	.15	.15	.16	.16	.16	.17
8	.05	.07	.09	.11	.13	.15	.16	.17	.18	.19	.20	.21	.22	.23	.24	.24
9	.06	.09	.12	.15	.17	.19	.22	.23	.23	.25	.27	.28	.30	.31	.32	.33
10	.08	.12	.15	.19	.22	.25	.27	.29	.30	.32	.34	.36	.38	.40	.41	.43
11	.10	.14	.19	.23	.27	.30	.34	.35	.37	.40	.43	.46	.48	.50	.52	.54
12	.12	.17	.22	.27	.32	.37	.41	.43	.45	.49	.52	.56	.59	.62	.65	.67
13	.14	.20	.26	.32	.38	.43	.49	.51	.53	.58	.63	.67	.71	.74	.78	.81
14	.16	.24	.31	.38	.44	.51	.57	.60	.63	.69	.74	.79	.84	.88	.93	.97
15	.18	.27	.36	.44	.51	.59	.66	.70	.73	.80	.86	.92	.98	1.03	1.09	1.14
16	.21	.31	.41	.50	.59	.68	.76	.80	.84	.92	.99	1.06	1.13	1.20	1.26	1.32
17	.24	.35	.46	.57	.67	.77	.86	.91	.96	1.05	1.13	1.22	1.29	1.37	1.44	1.51
18	.27	.39	.52	.64	.75	.87	.98	1.03	1.08	1.18	1.28	1.38	1.47	1.56	1.64	1.72
19	.30	.44	.58	.71	.84	.97	1.09	1.15	1.21	1.33	1.44	1.55	1.65	1.76	1.85	1.95
20	.33	.49	.64	.79	.94	1.08	1.22	1.29	1.35	1.48	1.61	1.73	1.85	1.97	2.08	2.18
21	.36	.54	.71	.88	1.04	1.20	1.35	1.43	1.50	1.65	1.79	1.92	2.06	2.19	2.31	2.43
22	.40	.59	.78	.97	1.14	1.32	1.49	1.57	1.66	1.82	1.97	2.13	2.28	2.42	2.56	2.70
23	.44	.65	.86	1.06	1.26	1.45	1.64	1.73	1.82	2.00	2.17	2.34	2.51	2.67	2.82	2.97
24	.48	.71	.93	1.15	1.37	1.58	1.79	1.89	1.99	2.19	2.38	2.56	2.75	2.92	3.10	3.26
25	.52	.77	1.02	1.26	1.49	1.72	1.95	2.06	2.17	2.38	2.59	2.80	3.00	3.19	3.38	3.57
26	.56	.83	1.10	1.36	1.62	1.87	2.11	2.23	2.35	2.59	2.82	3.04	3.26	3.47	3.68	3.89
27	.61	[illegible]	1.19	1.47	1.75	2.02	2.28	2.42	2.55	2.80	3.05	3.29	3.53	3.77	3.99	4.22
28	.65	.97	1.28	1.58	1.88	2.19	2.46	2.61	2.75	3.02	3.29	3.56	3.82	4.07	4.32	4.56
29	.70	1.04	1.37	1.70	2.02	2.34	2.65	2.80	2.95	3.25	3.54	3.83	4.11	4.39	4.66	4.92
30	.75	1.11	1.47	1.82	2.17	2.51	2.84	3.01	3.17	3.49	3.81	4.12	4.42	4.72	5.01	5.29
31	.80	1.19	1.57	1.95	2.32	2.68	3.04	3.22	3.39	3.74	4.08	4.41	4.74	5.06	5.37	5.68
32	.85	1.27	[illegible]	2.08	2.48	2.87	3.25	3.44	3.62	3.99	4.36	4.71	5.06	5.41	5.75	6.08
33	.91	1.35	1.79	2.22	2.64	3.05	3.46	3.66	3.86	4.26	4.65	5.03	5.40	5.77	6.13	6.49
34	.96	1.43	1.90	2.35	2.80	3.25	3.68	3.90	4.11	4.53	4.95	5.35	5.75	6.15	6.53	6.91
35	1.02	1.52	2.01	2.50	2.98	3.45	3.91	4.14	4.36	4.81	5.25	5.69	6.12	6.54	6.95	7.35
36	[illegible]	[illegible]	2.13	2.65	3.15	3.65	4.14	4.39	4.63	5.10	5.57	6.03	6.49	6.93	7.37	7.81
37	1.14	1.70	2.25	2.80	3.33	3.86	4.38	4.64	4.90	5.40	5.90	6.39	6.87	7.35	7.81	8.27
38	1.21	[illegible]	2.38	2.95	3.52	4.08	4.63	4.90	5.17	5.71	6.23	6.75	7.27	7.77	8.27	8.75
39	1.27	1.89	2.51	3.11	3.71	4.30	4.88	5.17	5.46	6.02	6.58	7.13	7.67	8.20	8.73	9.25
40	1.34	1.99	2.64	3.28	3.91	4.53	5.14	5.45	5.75	6.35	6.93	7.51	8.09	8.65	9.21	9.76
41	1.40	2.09	2.77	3.45	4.11	4.76	5.41	5.73	6.05	6.68	7.30	7.91	8.51	9.11	9.70	10.28
42	1.47	2.20	2.91	3.62	4.32	5.01	5.68	6.02	6.36	7.02	7.67	8.32	8.95	9.58	10.20	10.81
43	[illegible]	2.31	[illegible]	[illegible]	[illegible]	5.25	5.97	6.32	6.67	7.37	8.05	8.73	9.40	10.06	10.71	11.36
44	1.62	2.42	[illegible]	3.78	4.75	[illegible]	6.25	6.62	6.99	7.72	8.45	9.16	9.86	10.56	11.24	11.92
45	[illegible]	[illegible]	[illegible]	4.16	4.97	5.76	6.55	6.94	7.32	8.09	8.85	9.59	10.33	11.06	11.76	12.49
46	1.77	2.64	3.50	4.35	5.19	6.03	6.85	7.26	7.66	8.46	9.26	10.04	10.82	11.58	12.34	13.08
47	[illegible]	2.75	3.65	[illegible]	5.43	[illegible]	7.16	7.58	8.01	8.85	9.68	[illegible]	11.31	12.11	12.90	13.68
48	[illegible]	[illegible]	3.82	4.75	5.66	6.57	7.47	7.92	8.36	9.24	10.11	10.96	11.81	12.65	13.48	[illegible]
49	2.01	3.00	3.98	4.95	5.91	6.85	7.79	8.26	8.72	9.64	10.54	11.44	12.33	13.21	14.07	14.93
50	[illegible]	[illegible]	4.15	5.16	6.15	7.14	8.12	8.61	9.09	10.05	10.99	11.97	12.86	13.77	14.68	15.57
51	2.18	3.25	4.31	5.37	6.41	7.44	8.46	8.96	9.46	10.46	11.45	12.43	13.39	14.35	15.29	16.23
52	2.27	3.38	4.49	5.58	6.66	7.74	8.80	9.32	9.85	10.89	11.92	12.93	13.94	14.94	15.92	[illegible]
53	[illegible]	3.51	[illegible]	[illegible]	[illegible]	[illegible]	9.15	[illegible]	10.24	11.32	12.39	13.45	[illegible]	15.54	16.56	17.58
54	2.44	3.65	4.84	6.02	7.20	8.35	9.50	10.07	10.64	11.76	12.88	13.98	15.07	16.15	17.22	18.28
55	2.54	3.79	5.03	6.25	7.47	8.67	9.86	10.46	11.04	12.21	13.37	14.52	15.65	16.78	17.89	18.99
56	2.63	3.93	5.21	[illegible]	[illegible]	[illegible]	10.23	10.85	11.46	12.67	13.87	15.07	16.24	17.41	18.57	19.71
57	2.73	4.07	5.40	6.72	8.03	9.32	10.61	11.25	11.88	13.14	14.39	15.62	16.85	18.06	19.26	20.45
58	2.82	4.21	5.59	6.96	8.32	9.66	10.99	11.65	12.31	13.62	14.91	16.19	17.46	18.72	19.97	[illegible]
59	2.92	4.36	5.79	7.21	8.61	10.00	11.38	12.06	12.75	14.10	15.44	16.77	18.09	19.39	20.68	21.96
60	3.02	4.51	5.99	7.46	8.91	10.35	11.78	12.48	13.19	14.59	15.98	17.36	18.72	20.08	21.44	22.74

* 1KIP=1000 POUNDS

Table 12.--Log weights for scaling lengths of 34 to 60 feet: density index = 38 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIFS*) FOR DENSITY INDEX=38

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.11	.11	.10	.10	.10	.10	.10	.09	.09	.09	.08	.08	.07	.07	.06	.06
7	.17	.17	.17	.17	.17	.17	.16	.16	.16	.16	.15	.15	.14	.14	.13	.13
8	.24	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.23	.23	.22
9	.34	.34	.34	.35	.35	.35	.36	.36	.36	.36	.36	.36	.35	.35	.34	.34
10	.44	.45	.45	.46	.47	.48	.48	.48	.49	.49	.49	.49	.49	.49	.49	.48
11	.56	.57	.58	.59	.60	.62	.62	.62	.63	.64	.65	.65	.65	.65	.65	.65
12	.70	.71	.72	.74	.76	.77	.78	.79	.80	.81	.82	.83	.84	.84	.85	.85
13	[illegible]	[illegible]	.87	.90	.92	.95	.96	.97	.99	1.00	1.02	1.03	1.04	1.05	1.06	1.07
14	[illegible]	[illegible]	[illegible]	[illegible]	1.11	1.14	1.15	1.17	1.19	1.21	1.24	1.26	1.27	1.29	[illegible]	1.31
15	[illegible]	1.21	[illegible]	1.27	1.31	1.35	1.37	1.38	1.42	1.45	1.48	1.50	1.53	1.55	1.57	1.58
16	[illegible]	[illegible]	[illegible]	[illegible]	1.53	1.58	1.60	1.62	1.66	[illegible]	1.74	1.77	1.80	1.83	1.86	1.88
17	[illegible]	1.61	[illegible]	1.71	1.77	1.92	1.85	1.88	1.93	1.97	2.02	2.06	2.10	2.14	2.17	[illegible]
18	1.80	1.84	1.88	1.95	2.02	2.09	2.12	2.15	2.21	2.27	2.32	2.37	2.42	2.47	2.51	2.55
19	[illegible]	[illegible]	2.13	2.21	[illegible]	[illegible]	2.40	2.44	2.51	2.58	2.64	2.71	2.76	2.82	2.87	2.92
20	[illegible]	[illegible]	[illegible]	2.48	2.58	2.67	2.71	2.75	2.83	2.91	2.99	3.06	3.13	3.20	3.26	3.32
21	[illegible]	[illegible]	[illegible]	2.77	2.88	2.98	3.03	3.09	3.18	3.27	3.36	3.44	3.52	3.60	3.67	3.74
22	2.83	2.89	2.96	3.08	3.20	3.32	3.37	3.43	3.54	3.64	3.74	3.84	3.93	4.02	4.11	4.19
23	3.12	3.19	3.26	3.40	3.54	3.67	3.73	3.80	3.92	4.04	4.15	4.26	4.37	4.47	4.57	4.67
24	[illegible]	[illegible]	[illegible]	3.74	[illegible]	4.04	4.11	4.18	[illegible]	4.45	4.58	4.71	4.83	4.94	5.06	5.17
25	[illegible]	[illegible]	[illegible]	[illegible]	4.26	4.43	4.51	4.59	4.74	4.89	[illegible]	5.17	5.31	5.44	5.57	5.69
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.93	[illegible]	[illegible]	5.18	5.34	5.50	5.66	5.81	5.96	6.11	6.24
27	4.44	4.54	4.65	4.86	5.06	5.26	5.35	5.45	5.64	5.82	6.00	6.17	6.34	6.50	6.66	6.82
28	4.80	4.92	5.03	5.26	5.48	5.70	5.80	5.91	6.11	6.32	6.51	6.70	6.89	7.07	7.25	7.42
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.16	6.27	6.39	6.61	6.83	7.05	7.26	7.46	7.66	7.85	8.04
30	[illegible]	[illegible]	[illegible]	6.11	[illegible]	[illegible]	6.70	6.88	7.17	[illegible]	[illegible]	7.83	8.06	8.27	8.49	8.71
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.13	7.26	[illegible]	7.67	[illegible]	8.18	8.43	8.67	8.91	9.15	9.37
32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.64	7.79	7.93	8.22	[illegible]	8.78	9.05	9.32	9.57	9.83	10.08
33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.17	8.33	[illegible]	[illegible]	9.10	9.40	9.69	9.98	10.26	10.53	[illegible]
34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.72	8.89	[illegible]	9.39	9.72	10.04	10.36	10.67	10.97	11.27	11.56
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.28	9.47	[illegible]	[illegible]	10.36	10.70	11.04	11.38	11.73	[illegible]	12.34
36	[illegible]	[illegible]	[illegible]	[illegible]	9.47	9.87	[illegible]	[illegible]	10.64	[illegible]	11.39	11.75	12.11	12.46	[illegible]	13.14
37	9.73	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.09	12.46	12.86	13.24	13.61	13.97
38	9.24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.31	[illegible]	11.97	[illegible]	12.92	[illegible]	13.64	14.04	14.44	14.82
39	[illegible]	[illegible]	[illegible]	[illegible]	11.24	11.72	[illegible]	12.19	12.66	13.12	13.57	14.01	14.44	14.87	15.29	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.38	[illegible]	12.88	[illegible]	13.86	[illegible]	[illegible]	15.27	15.72	16.17	16.61
41	[illegible]	[illegible]	11.41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.62	15.12	15.62	16.11	16.60	[illegible]	17.54
42	[illegible]	11.71	[illegible]	[illegible]	[illegible]	13.74	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.98	17.50	[illegible]	[illegible]
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.45	14.74	[illegible]	15.62	[illegible]	16.77	17.32	17.88	18.42	18.95	19.48
44	[illegible]	[illegible]	[illegible]	[illegible]	14.54	15.17	15.49	[illegible]	16.41	[illegible]	17.62	18.21	18.79	19.36	[illegible]	20.49
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.92	16.25	16.57	17.22	[illegible]	18.49	19.11	19.73	20.33	20.93	21.52
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.68	17.12	17.37	[illegible]	18.72	19.39	20.04	20.69	21.37	21.96	22.58
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.46	17.82	[illegible]	[illegible]	[illegible]	[illegible]	20.99	21.67	22.34	23.01	23.66
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.25	18.63	[illegible]	19.77	[illegible]	21.24	21.97	22.68	23.39	[illegible]	24.77
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.47	19.86	[illegible]	[illegible]	[illegible]	22.96	23.71	24.45	25.18	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.56	[illegible]	23.18	23.98	24.76	25.54	26.31	[illegible]
51	[illegible]	[illegible]	[illegible]	18.97	[illegible]	[illegible]	21.10	21.62	22.48	23.34	[illegible]	[illegible]	25.84	[illegible]	27.45	28.25
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.62	[illegible]	[illegible]	23.43	24.32	[illegible]	[illegible]	26.94	27.79	28.63	29.46
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25.33	[illegible]	27.16	[illegible]	[illegible]	29.82	[illegible]
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28.26	[illegible]	[illegible]	[illegible]	31.95
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.84	[illegible]	[illegible]	[illegible]	[illegible]	29.39	[illegible]	31.34	32.29	33.24
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.34	27.41	[illegible]	[illegible]	[illegible]	[illegible]	32.57	[illegible]	34.55
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.34	[illegible]	[illegible]	[illegible]	31.71	32.77	33.82	34.86	35.89
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.19	27.78	[illegible]	[illegible]	[illegible]	31.78	[illegible]	[illegible]	[illegible]	36.18	[illegible]
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28.79	[illegible]	[illegible]	[illegible]	32.95	34.11	35.26	36.40	[illegible]	38.64
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.69	32.92	34.14	35.35	36.54	37.72	38.90	40.05

* 1X10-1 [illegible]

Table 13.--Log weights for scaling lengths of 4 to 32 feet: density index = 40 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=40

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.03	.04	.05	.06	.07	.08	.09	.09	.09	.10	.10	.11	.11	.11	.11	.11
7	.04	.06	.08	.09	.10	.12	.13	.13	.14	.15	.15	.16	.17	.17	.17	.18
8	.05	.08	.10	.12	.14	.16	.17	.18	.19	.20	.21	.22	.23	.24	.25	.26
9	.07	.10	.13	.16	.18	.20	.23	.24	.25	.27	.28	.30	.31	.32	.34	.35
10	.08	.12	.16	.20	.23	.26	.29	.30	.31	.34	.36	.38	.40	.42	.44	.45
11	.10	.15	.20	.24	.28	.32	.35	.37	.39	.42	.45	.48	.51	.53	.55	.57
12	.12	.18	.24	.29	.34	.38	.43	.45	.47	.51	.55	.59	.62	.65	.68	.71
13	.14	.21	[illegible]	.34	[illegible]	.46	.51	.54	.56	.61	.66	[illegible]	.74	.78	.82	.86
14	.17	.25	.32	.40	.47	.54	.60	.63	.66	.72	.78	.83	.88	.93	.98	1.02
15	.19	[illegible]	[illegible]	[illegible]	[illegible]	.62	[illegible]	.73	.77	.84	.91	.97	1.03	1.09	1.14	1.20
16	.22	.33	.43	.53	.62	.71	.80	.84	.88	.97	1.04	1.12	1.19	1.26	1.33	1.39
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.81	.91	.96	1.01	1.10	1.19	1.28	[illegible]	[illegible]	[illegible]	1.59
18	.28	.41	.54	.67	.79	.91	1.03	1.08	1.14	1.25	1.35	1.45	1.55	1.64	1.73	1.81
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.02	1.15	1.22	1.28	[illegible]	1.52	[illegible]	1.74	[illegible]	[illegible]	[illegible]
20	[illegible]	.51	.68	.83	.99	1.14	1.28	1.35	1.42	1.56	1.69	1.82	1.95	2.07	2.19	2.30
21	[illegible]	.57	.75	.92	1.09	1.26	1.42	1.50	1.58	1.73	1.88	2.03	2.17	2.30	2.43	2.56
22	[illegible]	.62	.82	1.02	1.21	1.39	1.57	1.66	1.74	1.91	2.08	2.24	2.40	2.55	2.70	2.84
23	[illegible]	.68	.90	1.11	1.32	1.52	1.72	1.82	1.91	2.10	2.29	2.46	2.64	2.81	2.97	3.13
24	[illegible]	.75	.98	1.22	1.44	1.66	1.88	1.99	2.09	2.30	2.50	2.70	2.89	3.08	3.26	3.44
25	[illegible]	.81	1.07	1.32	1.57	1.81	2.05	2.17	2.28	2.51	2.73	2.94	3.15	3.36	3.56	3.76
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.97	[illegible]	[illegible]	2.48	[illegible]	2.95	[illegible]	[illegible]	3.66	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	1.55	1.84	2.13	2.40	2.54	2.68	2.95	3.21	3.47	3.72	3.96	4.20	4.44
28	[illegible]	[illegible]	[illegible]	1.67	1.98	2.29	2.59	2.74	2.89	3.18	3.47	3.74	4.02	4.29	4.55	4.80
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.46	2.79	[illegible]	3.11	3.42	3.73	[illegible]	[illegible]	4.62	[illegible]	5.18
30	[illegible]	[illegible]	[illegible]	1.92	2.28	2.64	2.99	3.17	3.34	3.68	4.01	4.33	4.65	4.96	5.27	5.57
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.94	[illegible]	4.64	[illegible]	[illegible]	[illegible]	5.98
32	[illegible]	[illegible]	1.77	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.82	[illegible]	4.59	[illegible]	[illegible]	[illegible]	[illegible]	6.40
33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.21	[illegible]	[illegible]	[illegible]	4.48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
34	[illegible]	[illegible]	[illegible]	2.48	2.95	3.42	3.88	4.10	4.33	4.77	5.21	5.63	6.06	6.47	6.88	7.28
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.11	[illegible]	4.59	[illegible]	[illegible]	[illegible]	6.44	[illegible]	7.31	7.74
36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.84	4.36	[illegible]	4.97	5.37	5.86	6.35	[illegible]	[illegible]	7.76	8.22
37	[illegible]	[illegible]	[illegible]	2.94	3.51	4.06	4.61	4.88	5.15	5.68	6.21	6.72	7.23	7.73	8.22	8.71
38	[illegible]	[illegible]	[illegible]	3.11	3.71	4.29	4.87	5.16	5.44	6.01	6.56	7.11	7.65	8.18	8.70	9.21
39	[illegible]	[illegible]	[illegible]	[illegible]	3.91	4.53	5.14	5.44	5.74	6.34	6.93	7.50	8.07	8.64	9.19	9.73
40	[illegible]	[illegible]	[illegible]	3.45	4.11	4.77	5.41	5.73	6.05	6.68	7.30	7.91	8.51	9.11	9.69	10.27
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.37	[illegible]	7.68	[illegible]	8.96	[illegible]	[illegible]	[illegible]
42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.75	[illegible]	[illegible]	[illegible]	11.36
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.48	[illegible]	[illegible]	[illegible]	[illegible]	11.96
44	[illegible]	[illegible]	[illegible]	4.19	5.00	5.79	6.58	6.97	7.36	8.13	8.89	9.64	10.38	11.11	11.83	12.55
45	[illegible]	[illegible]	[illegible]	4.38	5.23	6.07	6.89	7.30	7.71	8.52	9.31	10.10	10.88	11.65	12.40	13.15
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.77
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.44	[illegible]	14.19	[illegible]
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
52	[illegible]	[illegible]	[illegible]	5.88	7.02	8.14	9.26	9.81	10.37	11.46	12.54	13.61	14.67	15.72	16.76	17.79
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.71	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.17	[illegible]	[illegible]	[illegible]	15.14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.69	[illegible]	[illegible]	19.71	[illegible]	[illegible]
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.25	[illegible]	[illegible]	[illegible]	[illegible]	23.12
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.27	[illegible]	[illegible]	[illegible]	23.94

* 1KIP=1000 POUNDS

Table 14.--Log weights for scaling lengths of 34 to 60 feet: density index = 40 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=40

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	[illegible]	[illegible]	.11	.11	.11	.10	.10	.10	.10	.09	.09	.08	.08	.07	.07	.06
7	[illegible]	[illegible]	.18	.18	.18	.17	.17	.17	.17	.17	.16	.16	.15	.15	.14	.13
8	[illegible]	[illegible]	.26	.26	.26	.26	.26	.26	.26	.26	.25	.25	.25	.24	.24	.23
9	[illegible]	[illegible]	.36	.37	.37	.37	.37	.38	.38	.38	.38	.37	.37	.37	.36	.36
10	[illegible]	[illegible]	.48	.49	.49	.50	.50	.51	.51	.51	.52	.52	.52	.52	.51	.51
11	[illegible]	[illegible]	.61	.62	.64	.65	.65	.66	.67	.67	.68	.68	.69	.69	.69	.69
12	[illegible]	[illegible]	.75	.78	.80	.81	.82	.83	.84	.85	.86	.87	.88	.89	.89	.89
13	[illegible]	[illegible]	.92	.95	.97	1.00	1.01	1.02	1.04	1.06	1.07	1.09	1.10	1.11	1.12	1.12
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.21	[illegible]	[illegible]	[illegible]	[illegible]	1.32	1.34	1.36	1.37	1.38
15	[illegible]	[illegible]	1.29	1.34	1.38	1.42	1.44	1.46	1.49	1.52	1.55	1.58	1.61	1.63	1.65	1.67
16	[illegible]	[illegible]	1.51	1.56	1.61	1.66	1.68	1.71	1.75	1.79	1.83	1.86	1.90	1.93	1.95	1.98
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.12	2.17	2.21	2.25	2.28	2.32
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.44	[illegible]	2.55	2.60	2.64	2.68
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.72	[illegible]	[illegible]	2.91	2.97	[illegible]	[illegible]
20	[illegible]	[illegible]	2.51	2.61	2.71	2.81	2.85	2.90	2.98	3.07	3.15	3.22	3.30	3.37	3.43	3.49
21	[illegible]	[illegible]	2.80	2.92	3.03	3.14	3.19	3.24	3.34	3.44	3.53	3.62	3.71	3.79	3.87	3.94
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.14	[illegible]	[illegible]	4.41
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.71	[illegible]	4.91
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.44
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.14	[illegible]	5.44	[illegible]	[illegible]	[illegible]	5.99
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.12	[illegible]	[illegible]	6.57
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.31	[illegible]	[illegible]	[illegible]	[illegible]	7.17
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.44	[illegible]	[illegible]	[illegible]	7.25	7.44	[illegible]	7.81
29	[illegible]	[illegible]	5.72	5.98	6.23	6.48	6.60	6.72	6.96	7.19	7.42	7.64	7.85	8.06	8.27	8.47
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.25	8.48	8.71	[illegible]	9.15
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.87
32	[illegible]	[illegible]	[illegible]	7.40	7.73	8.04	8.20	8.35	8.65	8.95	9.24	9.53	9.81	10.08	10.34	10.61
33	[illegible]	[illegible]	7.56	7.91	8.26	8.60	8.77	8.93	9.26	9.58	9.90	10.20	10.50	10.80	11.09	11.37
34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.23	11.55	[illegible]	12.16
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.27	[illegible]	[illegible]	12.32	[illegible]	12.98
36	[illegible]	8.89	9.11	9.54	9.97	10.39	10.59	10.80	11.20	11.60	11.99	12.37	12.75	13.11	13.48	13.83
37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.78	[illegible]	[illegible]
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.53
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.07	16.55	[illegible]	[illegible]
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.44	[illegible]	17.47	[illegible]	18.46
42	[illegible]	12.33	12.64	13.25	13.86	14.46	14.76	15.05	15.63	16.21	16.77	17.33	17.88	18.42	18.95	19.47
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.17	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.71	20.41	[illegible]	[illegible]	22.45	23.11	23.77
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.91
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.62	[illegible]	[illegible]
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.74	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.27
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
52	[illegible]	[illegible]	[illegible]	[illegible]	21.78	22.75	23.23	23.71	24.66	[illegible]	26.53	27.45	28.35	29.25	30.13	31.01
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29.53	30.47	[illegible]	[illegible]
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.71	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	24.51	25.61	26.15	26.69	27.77	[illegible]	29.89	30.93	31.96	32.98	33.99	34.99
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	37.21	[illegible]	[illegible]	[illegible]	42.16

Table 15.--Log weights for scaling lengths of 4 to 32 feet: density index = 42 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=42

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.03	.04	.06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.11	.11	.11	.12	.12	.12
7	.04	[illegible]	.08	[illegible]	.11	.12	[illegible]	[illegible]	.14	.15	.16	.17	.17	.18	.18	.18
8	.06	[illegible]	.10	[illegible]	.15	.17	[illegible]	[illegible]	[illegible]	.21	.22	.23	.24	.25	.26	.27
9	.07	[illegible]	.13	[illegible]	[illegible]	[illegible]	.24	[illegible]	[illegible]	[illegible]	.30	.31	.33	.34	.35	.36
10	.09	[illegible]	.17	[illegible]	.24	[illegible]	[illegible]	.32	[illegible]	[illegible]	.38	.40	.42	.44	.46	.47
11	.11	[illegible]	.21	[illegible]	[illegible]	[illegible]	.37	[illegible]	.41	.44	.47	.50	.53	.56	.58	.60
12	.13	.19	.25	[illegible]	[illegible]	[illegible]	.45	.47	[illegible]	[illegible]	.58	.62	.65	.68	.71	.74
13	.15	[illegible]	.29	[illegible]	.42	[illegible]	.54	[illegible]	[illegible]	[illegible]	.69	.74	.78	.82	.86	.90
14	.18	[illegible]	.34	[illegible]	[illegible]	[illegible]	.67	[illegible]	[illegible]	.76	.82	.87	.93	.98	1.02	1.07
15	.20	[illegible]	.39	[illegible]	[illegible]	[illegible]	.73	[illegible]	.81	[illegible]	.95	1.02	1.08	1.14	1.20	1.26
16	.23	.34	.45	[illegible]	[illegible]	.75	.84	[illegible]	[illegible]	[illegible]	1.10	1.17	1.25	1.32	1.39	1.46
17	.26	[illegible]	.51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.16	1.25	1.34	1.43	1.52	1.60	1.67
18	.29	[illegible]	.57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.42	1.52	1.62	1.72	1.82	1.91
19	[illegible]	[illegible]	.64	[illegible]	[illegible]	[illegible]	1.21	[illegible]	[illegible]	[illegible]	1.59	1.71	1.83	1.94	2.05	2.15
20	.36	[illegible]	.71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.78	1.91	2.05	2.17	2.29	2.41
21	[illegible]	[illegible]	.79	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.98	2.13	2.27	2.42	2.56	2.69
22	.44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.18	2.35	2.52	2.68	2.83	2.98
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.21	2.40	2.59	2.77	2.95	3.12	3.29
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.63	2.83	3.07	3.23	3.42	3.61
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.86	3.09	3.31	3.53	3.74	3.94
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.11	3.36	[illegible]	3.84	4.07	4.30
27	[illegible]	.99	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.37	3.64	[illegible]	4.16	4.41	4.66
28	[illegible]	1.07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.64	3.93	4.22	4.50	4.77	5.04
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.92	4.23	4.55	4.85	[illegible]	5.44
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.14	[illegible]	[illegible]	[illegible]	4.21	4.55	[illegible]	5.21	[illegible]	5.85
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.13	4.51	4.87	5.23	5.59	[illegible]	6.28
32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.41	4.82	5.21	[illegible]	5.98	[illegible]	6.72
33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.27	4.71	5.14	5.56	5.97	6.38	[illegible]	7.17
34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.07	[illegible]	4.54	[illegible]	5.47	5.92	[illegible]	6.79	7.22	7.64
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.32	[illegible]	[illegible]	[illegible]	5.81	6.29	6.76	7.22	[illegible]	8.13
36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.11	[illegible]	6.16	6.67	7.17	7.66	[illegible]	8.63
37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.41	[illegible]	6.52	7.06	7.59	8.12	[illegible]	9.14
38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.72	[illegible]	6.89	7.46	[illegible]	8.59	[illegible]	9.68
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.27	7.88	8.40	9.07	[illegible]	10.22
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.66	8.31	8.94	9.56	[illegible]	10.78
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.07	8.74	9.41	10.07	10.72	11.36
42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.48	9.19	9.89	10.59	11.27	11.95
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.37	8.14	8.90	9.65	10.39	11.12	[illegible]	12.55
44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.33	10.12	[illegible]	11.67	[illegible]	13.17
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.78	10.60	11.42	12.23	[illegible]	13.81
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.10	[illegible]	12.80	[illegible]	14.46
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.60	[illegible]	13.39	[illegible]	15.13
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.17	12.12	[illegible]	13.98	[illegible]	15.81
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.65	[illegible]	14.60	[illegible]	16.50
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.18	14.21	15.22	[illegible]	17.21
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.73	[illegible]	15.86	[illegible]	17.94
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.17	[illegible]	[illegible]	16.51	[illegible]	18.68
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.17	[illegible]	19.43
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.45	[illegible]	[illegible]	[illegible]	20.20
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.77	20.99
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.79
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.60
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20.69	[illegible]	23.43
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.28
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25.14

* 1KIP=1[illegible]

Table 16.--Log weights for scaling lengths of 34 to 60 feet: density index = 42 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=42

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.12	.12	.12	.11	.11	.11	.11	.10	.10	.10	.09	.09	.08	.08	.07	.07
7	.19	.19	.19	.19	.19	.18	.18	.18	.18	.17	.17	.16	.16	.15	.15	.14
8	.27	.27	.27	.28	.28	.28	.28	.28	.28	.27	.27	.27	.26	.26	.25	.24
9	.37	.37	.38	.38	.39	.39	.39	.39	.40	.40	.39	.39	.39	.39	.38	.38
10	.49	.49	.50	.51	.52	.53	.53	.53	.54	.54	.54	.54	.54	.54	.54	.53
11	.62	.63	.64	.65	.67	.68	.69	.69	.70	.71	.71	.72	.72	.72	.72	.72
12	.77	.78	.79	.81	.83	.85	.86	.87	.88	.90	.91	.92	.92	.93	.93	.94
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.06	1.07	[illegible]	1.11	1.13	1.14	1.15	1.16	1.17	1.18
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.27	1.29	1.32	[illegible]	1.37	1.39	1.41	1.42	1.44	1.45
15	1.31	1.33	1.36	1.41	1.45	1.49	1.51	1.53	1.57	1.60	1.63	1.66	1.69	1.71	1.73	1.75
16	1.52	1.55	1.58	1.64	1.69	1.74	1.77	1.79	1.84	1.88	1.92	1.96	1.99	2.02	2.05	2.08
17	1.75	1.78	1.82	1.89	1.95	2.01	2.04	2.07	2.13	2.18	2.23	2.28	2.32	2.36	2.40	2.43
18	1.99	2.03	2.08	2.16	2.23	2.31	2.34	2.37	2.44	2.50	2.56	2.62	2.68	2.73	2.77	2.82
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.66	[illegible]	2.78	[illegible]	2.92	2.99	3.06	3.12	3.17	3.23
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.38	3.46	[illegible]	[illegible]	3.67
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.71	[illegible]	[illegible]	3.98	[illegible]	4.14
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.91	[illegible]	4.14	4.24	4.35	4.45	4.54	4.63
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.59	4.71	[illegible]	4.94	[illegible]	5.16
24	3.79	3.88	3.97	4.14	4.31	4.46	4.54	4.62	4.77	4.92	5.06	5.20	5.34	5.46	5.59	5.71
25	4.14	4.24	4.34	4.53	4.71	4.89	4.98	5.07	5.24	5.40	5.56	5.72	5.87	6.01	6.15	6.29
26	4.52	4.62	4.73	4.94	5.14	5.34	5.44	5.53	5.72	5.91	6.08	6.25	6.42	6.59	6.74	6.90
27	4.90	5.02	5.14	5.37	5.59	5.81	5.92	6.02	6.23	6.43	6.63	6.82	7.01	7.19	7.36	7.53
28	5.30	5.43	5.56	5.81	6.06	6.30	6.41	6.53	6.76	6.98	7.20	7.41	7.61	7.81	8.01	8.20
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.25	8.47	[illegible]	8.89
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.47	7.61	[illegible]	8.14	[illegible]	8.66	[illegible]	[illegible]	[illegible]	9.61
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.32	[illegible]	[illegible]	10.11	10.36
32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.58	[illegible]	11.14
33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.71	[illegible]	11.34	11.64	11.94
34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.45	[illegible]	12.12	12.45	12.77
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.45	[illegible]	12.21	12.57	12.93	13.29	13.63
36	9.10	9.33	9.56	10.02	10.46	10.90	11.12	11.34	11.76	12.18	12.59	12.99	13.38	13.77	14.15	14.52
37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.37	[illegible]	[illegible]	14.63	15.04	15.44
38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.17	14.63	[illegible]	15.52	15.96	16.38
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.44	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.36	16.87	17.38	17.87	18.36
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.27	[illegible]	18.34	18.87	[illegible]
42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.34	[illegible]	20.44
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.53
44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.77	[illegible]	[illegible]	[illegible]	[illegible]	19.47	20.17	[illegible]	21.40	[illegible]	22.64
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.81	22.47	[illegible]	23.78
46	[illegible]	[illegible]	16.08	16.87	17.66	18.43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.57	[illegible]	24.95
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.21	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29.17	29.91
51	13.96	19.46	19.97	20.97	21.96	22.93	23.42	23.90	24.85	25.79	26.73	27.65	28.56	29.46	30.34	31.22
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29.77	30.71	31.64	32.56
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.99	[illegible]	33.92
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.24	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	36.74
56	23.04	23.66	24.28	25.51	26.72	27.92	28.52	29.11	30.29	31.46	32.61	33.75	34.88	35.99	37.10	38.19
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	37.38	38.53	39.67
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	38.79	[illegible]	41.17
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	42.71
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	37.74	39.07	40.39	41.70	42.99	44.27

Table 17.--Log weights for scaling lengths of 4 to 32 feet: density index = 44 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=44

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.03	.05	.06	.07	.08	.09	.10	.10	.10	.11	.11	.12	.12	.12	.12	.12
7	.04	.06	.08	.10	.11	.13	.14	.15	.15	.16	.17	.18	.18	.19	.19	.19
8	.06	.09	.11	.13	.15	.17	.19	.20	.21	.22	.23	.25	.26	.26	.27	.28
9	.07	.11	.14	.17	.20	.23	.25	.26	.27	.29	.31	.33	.34	.36	.37	.38
10	.09	.14	.18	.21	.25	.28	.32	.33	.35	.37	.40	.42	.44	.46	.48	.50
11	.11	.17	.22	.26	.31	.35	.39	.41	.43	.46	.50	.53	.56	.58	.61	.63
12	.14	.20	.26	.32	.37	.42	.47	.50	.52	.56	.61	.64	.68	.72	.75	.78
13	.16	.23	.31	.37	.44	.50	.56	.59	.62	.67	.72	.77	.82	.86	.90	.94
14	.19	.27	.36	.44	.51	.59	.66	.69	.73	.79	.86	.91	.97	1.02	1.07	1.12
15	.21	.31	.41	.51	.60	.68	.77	.81	.85	.92	1.00	1.07	1.13	1.20	1.26	1.32
16	.24	.36	.47	.58	.68	.78	.88	.93	.97	1.06	1.15	1.23	1.31	1.39	1.46	1.53
17	.27	.41	.53	.66	.77	.89	1.00	1.05	1.11	1.21	1.31	1.41	1.50	1.59	1.67	1.75
18	.31	.46	.60	.74	.87	1.00	1.13	1.19	1.25	1.37	1.48	1.59	1.70	1.80	1.90	2.00
19	.34	.51	.67	.83	.98	1.12	1.27	1.34	1.41	1.54	1.67	1.79	1.92	2.03	2.15	2.25
20	.38	.57	.74	.92	1.05	1.25	1.41	1.49	1.57	1.72	1.86	2.01	2.14	2.28	2.40	2.53
21	.42	.62	.82	1.02	1.21	1.39	1.56	1.65	1.74	1.91	2.07	2.23	2.38	2.53	2.68	2.82
22	.46	.69	.91	1.12	1.33	1.53	1.73	1.82	1.92	2.10	2.29	2.46	2.64	2.80	2.97	3.12
23	.51	.75	.99	1.23	1.45	1.68	1.89	2.00	2.11	2.31	2.51	2.71	2.90	3.09	3.27	3.44
24	.55	.82	1.08	1.34	1.59	1.83	2.07	2.19	2.30	2.53	2.75	2.97	3.18	3.38	3.58	3.78
25	.60	.89	1.19	1.45	1.73	1.99	2.25	2.38	2.51	2.76	3.00	3.24	3.47	3.70	3.92	4.13
26	.65	.96	1.27	1.58	1.87	2.16	2.45	2.59	2.72	3.00	3.26	3.52	3.77	4.02	4.26	4.50
27	.70	1.04	1.38	1.70	2.02	2.34	2.65	2.80	2.95	3.24	3.53	3.81	4.09	4.36	4.63	4.88
28	.75	1.12	1.48	1.83	2.16	2.52	2.85	3.02	3.18	3.50	3.81	4.12	4.42	4.71	5.00	5.28
29	.81	1.20	1.59	1.97	2.34	2.71	3.07	3.25	3.42	3.77	4.10	4.44	4.76	5.08	5.39	5.70
30	.87	1.29	1.70	2.11	2.51	2.91	3.29	3.48	3.67	4.04	4.41	4.77	5.12	5.46	5.80	6.13
31	.93	1.38	1.82	2.26	2.69	3.11	3.52	3.73	3.93	4.33	4.72	5.11	5.48	5.85	6.22	6.57
32	.99	1.47	1.94	2.41	2.87	3.32	3.76	3.98	4.20	4.63	5.05	5.46	5.86	6.26	6.65	7.04
33	1.05	1.56	2.07	2.57	3.05	3.54	4.01	4.24	4.47	4.93	5.38	5.82	6.26	6.68	7.10	7.51
34	1.12	1.66	2.20	2.73	3.25	3.76	4.26	4.51	4.76	5.25	5.73	6.20	6.66	7.12	7.57	8.01
35	1.18	1.76	2.33	2.89	3.45	3.99	4.53	4.79	5.05	5.57	6.08	6.59	7.08	7.57	8.05	8.52
36	1.25	1.86	2.47	3.06	3.65	4.23	4.80	5.08	5.36	5.91	6.45	6.99	7.51	8.03	8.54	9.04
37	1.32	1.97	2.61	3.24	3.86	4.47	5.07	5.37	5.67	6.25	6.83	7.40	7.96	8.51	9.05	9.58
38	1.40	2.08	2.75	3.42	4.08	4.72	5.36	5.68	5.99	6.61	7.22	7.82	8.41	9.00	9.57	10.14
39	1.47	2.19	2.90	3.61	4.30	4.98	5.65	5.99	6.32	6.97	7.62	8.25	8.88	9.50	10.11	10.71
40	1.55	2.31	3.06	3.80	4.53	5.25	5.96	6.31	6.66	7.35	8.03	8.70	9.36	10.02	10.66	11.30
41	1.63	2.42	3.21	3.99	4.76	5.52	6.27	6.64	7.00	7.73	8.45	9.16	9.86	10.55	11.23	11.90
42	1.71	2.55	3.37	4.19	5.00	5.80	6.58	6.97	7.36	8.13	8.88	9.63	10.37	11.09	11.81	12.52
43	1.79	2.67	3.54	4.40	5.24	6.08	6.91	7.32	7.72	8.53	9.33	10.11	10.89	11.65	12.41	13.15
44	1.88	2.80	3.71	4.61	5.50	6.37	7.24	7.67	8.10	8.94	9.78	10.60	11.42	12.22	13.02	13.80
45	1.96	2.93	3.88	4.82	5.75	6.67	7.58	8.03	8.48	9.37	10.24	11.11	11.96	12.81	13.64	14.47
46	2.05	3.06	4.06	5.04	6.02	6.98	7.93	8.40	8.87	9.80	10.72	11.63	12.52	13.41	14.28	15.15
47	2.14	3.19	4.24	5.27	6.28	7.29	8.29	8.78	9.27	10.24	11.21	12.16	13.09	14.02	14.94	15.85
48	2.23	3.33	4.42	5.50	6.56	7.61	8.65	9.17	9.68	10.70	11.70	12.70	13.68	14.65	15.61	16.56
49	2.33	3.47	4.61	5.73	6.84	7.94	9.02	9.56	10.10	11.16	12.21	13.25	14.28	15.29	16.29	17.29
50	2.42	3.62	4.80	5.97	7.13	8.27	9.40	9.96	10.52	11.63	12.73	13.81	14.88	15.95	16.99	18.03
51	2.52	3.77	5.00	6.21	7.42	8.61	9.79	10.38	10.96	12.11	13.26	14.39	15.51	16.61	17.71	18.79
52	2.62	3.92	5.20	6.46	7.72	8.96	10.19	10.80	11.40	12.61	13.80	14.98	16.14	17.30	18.44	19.57
53	2.73	4.07	5.40	6.72	8.02	9.31	10.59	11.22	11.86	13.11	14.35	15.58	16.79	17.99	19.18	20.36
54	2.83	4.22	5.61	6.98	8.33	9.67	11.00	11.66	12.32	13.62	14.91	16.19	17.45	18.70	19.94	21.16
55	2.94	4.38	5.82	7.24	8.65	10.04	11.42	12.11	12.79	14.14	15.48	16.81	18.12	19.42	20.71	21.99
56	3.05	4.55	6.03	7.51	8.97	10.42	11.85	12.56	13.27	14.67	16.07	17.44	18.81	20.16	21.50	22.82
57	3.16	4.71	6.25	7.78	9.30	10.80	12.28	13.02	13.76	15.21	16.66	18.09	19.51	20.91	22.30	23.68
58	3.27	4.88	6.48	8.06	9.63	11.19	12.73	13.49	14.25	15.77	17.26	18.75	20.22	21.68	23.12	24.55
59	3.38	5.05	6.70	8.34	9.97	11.58	13.18	13.97	14.76	16.33	17.88	19.42	20.94	22.45	23.95	25.43
60	3.50	5.22	6.94	8.63	10.31	11.98	13.63	14.46	15.27	16.90	18.51	20.10	21.68	23.25	24.80	26.33

* 1KIP=1000 POUNDS

Table 18.--Log weights for scaling lengths of 34 to 60 feet: density index = 44 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=44

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)															
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.12	.12	.12	.12	.12	.11	.11	.11	.11	.10	.10	.09	.09	.08	.08	.07
7	.19	.19	.20	.19	.19	.19	.19	.19	.19	.18	.18	.17	.17	.16	.15	.15
8	.28	.29	.29	.29	.29	.29	.29	.29	.29	.29	.28	.28	.27	.27	.26	.26
9	.39	.39	.40	.40	.41	.41	.41	.41	.41	.41	.41	.41	.41	.40	.40	.39
10	.51	.52	.52	.53	.54	.55	.55	.56	.56	.57	.57	.57	.57	.57	.56	.56
11	.65	.66	.67	.68	.70	.71	.72	.72	.73	.74	.75	.75	.76	.76	.76	.76
12	.80	.82	.83	.85	.87	.89	.90	.91	.93	.94	.95	.96	.97	.97	.98	.98
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.10	1.11	1.12	1.14	1.16	1.18	1.19	1.21	1.22	1.23	1.24
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.32	1.33	1.35	1.38	1.41	1.43	1.45	1.47	1.49	1.51	1.52
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.56	1.59	1.62	1.64	1.68	1.71	1.74	1.77	1.79	1.81	1.83
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.83	1.85	1.88	1.92	1.97	2.01	2.05	2.09	2.12	2.15	2.18
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.11	2.14	2.17	2.23	2.29	2.34	2.38	2.43	2.47	2.51	2.55
18	2.09	2.13	2.17	2.26	2.34	2.42	2.45	2.49	2.56	2.62	2.69	2.75	2.80	2.86	2.91	2.95
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.74	2.78	2.83	2.91	2.99	3.06	3.13	3.20	3.27	3.33	3.38
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.14	3.19	3.28	3.37	3.46	3.55	3.63	3.70	3.77	3.84
21	2.95	3.02	[illegible]	[illegible]	[illegible]	[illegible]	3.51	3.57	3.68	3.78	3.89	3.98	4.08	4.17	4.25	4.33
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.91	3.97	4.10	4.22	4.33	4.43	4.55	4.66	4.76	4.85
23	[illegible]	[illegible]	3.78	3.94	4.10	4.25	4.32	4.40	4.54	4.67	4.81	4.94	5.06	5.18	5.29	5.40
24	3.97	4.06	4.15	4.33	4.51	4.68	4.76	4.84	5.00	5.15	5.30	5.45	5.59	5.72	5.86	5.98
25	4.34	4.44	4.55	4.74	4.94	5.13	5.22	5.31	5.49	5.66	5.83	5.99	6.15	6.30	6.45	6.59
26	4.73	4.84	4.96	5.17	5.39	5.60	5.70	5.80	6.00	6.19	6.37	6.55	6.73	6.90	7.07	7.23
27	5.14	5.26	5.38	5.62	5.86	6.09	6.20	6.31	6.53	6.74	6.94	7.14	7.34	7.53	7.71	7.89
28	5.56	5.69	5.83	6.09	6.35	6.60	6.72	6.84	7.08	7.31	7.54	7.76	7.98	8.19	8.39	8.59
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.13	7.26	[illegible]	7.66	7.91	8.16	[illegible]	8.64	8.87	[illegible]	9.31
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.57	[illegible]	[illegible]	[illegible]	9.07	9.37	[illegible]	[illegible]	10.07
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.10	9.47	9.76	10.04	10.32	10.59	10.85
32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.85	10.17	10.48	10.79	11.09	[illegible]	11.67
33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.54	[illegible]	11.22	11.56	[illegible]	[illegible]	12.51
34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.43	[illegible]	11.26	11.67	11.99	12.35	12.70	13.04	13.38
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.75	[illegible]	11.17	11.59	11.99	12.39	12.79	13.17	13.55	13.92	14.28
36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.42	[illegible]	11.90	12.34	12.76	13.19	13.61	14.02	14.43	14.82	15.21
37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.12	[illegible]	[illegible]	13.08	13.54	[illegible]	14.45	14.89	15.33	15.75	16.17
38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.84	[illegible]	[illegible]	13.86	14.35	14.84	15.32	15.80	16.25	16.72	17.16
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.17	14.66	15.19	15.71	16.22	16.72	17.22	17.71	18.18
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.91	15.48	16.04	16.58	17.14	17.68	18.20	18.72	19.23
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.11	[illegible]	[illegible]	[illegible]	[illegible]	17.51	18.09	18.66	19.22	19.77	20.31
42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.55	17.21	17.83	18.45	19.06	19.66	20.25	20.84	21.42
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.41	[illegible]	18.76	19.41	20.06	20.70	21.33	21.95	22.55
44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.29	[illegible]	19.71	20.41	21.08	21.76	22.42	23.08	23.72
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.81	19.19	19.94	20.68	21.41	22.13	22.84	23.54	24.24	24.92
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.71	20.11	20.90	21.68	22.45	23.21	23.96	24.70	25.42	26.14
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.05	21.88	22.71	23.51	24.31	25.10	25.87	26.64	27.40
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.02	22.86	23.75	[illegible]	25.47	26.26	27.08	27.88	28.68
49	18.27	18.75	19.24	20.19	21.14	22.08	22.54	23.03	23.91	24.81	25.71	26.58	27.45	28.31	29.16	29.99
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.96	25.91	26.84	27.76	28.67	29.57	30.46	31.34
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.02	[illegible]	28.96	29.92	30.86	31.79	32.71
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.13	28.16	29.19	30.19	31.19	32.17	33.14	34.11
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.61	27.16	28.25	29.32	30.39	31.44	32.49	33.52	34.53	35.54
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.68	28.25	29.39	30.51	31.62	32.72	33.81	34.89	35.95	37.00
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28.77	[illegible]	[illegible]	31.72	32.89	34.03	35.16	36.28	37.39	38.49
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.73	32.95	34.16	35.36	36.54	37.71	38.86	40.01
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.11	31.66	32.94	34.21	35.47	36.71	37.94	39.16	40.37	41.56
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.17	35.49	[illegible]	38.10	39.37	40.64	41.89	43.14
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	33.74	[illegible]	35.42	36.79	38.15	39.50	40.83	42.16	43.46	44.74
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.63	35.26	36.71	38.1[illegible]	39.53	40.93	42.31	43.68	45.04	46.38

Table 19.--Log weights for scaling lengths of 4 to 32 feet: density index = 46 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=46

LARGE END DIAMETER (INCHES)	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
							SCALING LENGTH (FEET)									
6	.03	.05	.06	.07	.08	.09	.10	.11	.11	.11	.12	.12	.13	.13	.13	.13
7	.05	.07	.09	.10	.12	.13	.15	.15	.16	.17	.18	.18	.19	.19	.20	.20
8	.06	.09	.11	.14	.16	.18	.20	.21	.22	.23	.25	.26	.27	.28	.28	.29
9	.08	.11	.15	.18	.21	.24	.26	.27	.28	.31	.33	.34	.36	.37	.39	.40
10	.10	.14	.18	.22	.26	.30	.33	.35	.36	.39	.42	.44	.46	.48	.50	.52
11	.12	.17	.23	.27	.32	.37	.41	.43	.45	.48	.52	.55	.58	.61	.63	.66
12	.14	.21	.27	.33	.39	.44	.49	.52	.54	.59	.63	.67	.71	.75	.78	.81
13	.17	.24	.32	.39	.46	.53	.59	.62	.65	.70	.76	.81	.86	.90	.94	.98
14	.19	.28	.37	.46	.54	.62	.69	.73	.76	.83	.89	.96	1.01	1.07	1.12	1.17
15	.22	.33	.43	.53	.62	.71	.80	.84	.88	.96	1.04	1.12	1.19	1.25	1.32	1.38
16	.25	.37	.49	.60	.71	.82	.92	.97	1.02	1.11	1.20	1.29	1.37	1.45	1.52	1.60
17	.29	.42	.56	.69	.81	.93	1.05	1.10	1.16	1.27	1.37	1.47	1.57	1.66	1.75	1.83
18	.32	.48	.63	.77	.91	1.05	1.18	1.25	1.31	1.43	1.55	1.67	1.78	1.89	1.99	2.09
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.18	1.32	1.40	1.47	1.61	1.74	1.88	2.00	2.12	2.24	2.36
20	.40	.59	.78	.96	1.14	1.31	1.48	1.56	1.64	1.80	1.95	2.10	2.24	2.38	2.51	2.64
21	[illegible]	[illegible]	.86	1.06	1.26	1.45	1.64	1.73	1.82	1.99	2.16	2.33	2.49	2.65	2.80	2.95
22	.48	.72	.95	1.17	1.39	1.60	1.80	1.90	2.00	2.20	2.39	2.58	2.76	2.93	3.10	3.26
23	[illegible]	[illegible]	[illegible]	1.28	[illegible]	1.75	1.98	2.09	2.20	2.42	2.63	2.83	3.03	3.23	3.42	3.60
24	.58	.86	1.13	1.40	1.66	1.91	2.16	2.29	2.41	2.65	2.88	3.10	3.32	3.54	3.75	3.95
25	.63	.93	1.23	1.52	1.81	2.08	2.36	2.49	2.62	2.88	3.14	3.39	3.63	3.86	4.10	4.32
26	.68	1.01	1.33	1.65	1.96	2.26	2.56	2.70	2.85	3.13	3.41	3.68	3.95	4.20	4.46	4.70
27	.73	1.09	1.44	1.78	2.12	2.44	2.77	2.92	3.08	3.39	3.69	3.99	4.28	4.56	4.84	5.11
28	[illegible]	1.17	[illegible]	1.92	2.28	2.63	2.98	3.15	3.32	3.66	3.99	4.31	4.62	4.93	5.23	5.52
29	.85	1.26	1.66	2.06	2.45	2.83	3.21	3.39	3.58	3.94	4.29	4.64	4.98	5.31	5.64	5.96
30	[illegible]	[illegible]	[illegible]	2.21	2.63	3.04	3.44	3.64	3.84	4.23	4.61	4.98	5.35	5.71	6.06	6.41
31	.97	[illegible]	[illegible]	2.36	2.81	3.25	3.68	3.90	4.11	4.53	4.94	5.34	5.73	6.12	6.50	6.87
32	1.03	[illegible]	[illegible]	2.52	[illegible]	3.47	3.93	4.16	4.39	4.84	5.27	5.71	6.13	6.55	6.95	7.36
33	1.10	1.63	2.16	2.68	3.19	3.70	4.19	4.43	4.68	5.16	5.63	6.09	6.54	6.99	7.42	7.85
34	1.17	1.74	2.30	2.85	3.39	3.93	4.46	4.72	4.98	5.49	5.99	6.48	6.97	7.44	7.91	8.37
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.17	4.73	5.01	5.28	5.83	6.35	6.89	7.41	7.91	8.41	8.90
36	1.31	1.95	2.59	3.20	3.82	4.42	5.01	5.31	5.60	6.18	6.74	7.30	7.85	8.39	8.93	9.45
37	[illegible]	[illegible]	2.73	[illegible]	[illegible]	4.67	[illegible]	5.62	5.93	6.54	7.14	7.73	8.32	8.89	9.46	10.02
38	[illegible]	[illegible]	[illegible]	[illegible]	4.28	4.94	5.61	5.93	6.26	6.91	7.55	8.18	8.79	9.40	10.01	10.60
39	[illegible]	[illegible]	[illegible]	[illegible]	4.49	5.21	5.91	6.26	6.61	7.29	7.96	8.63	9.29	9.93	10.57	11.19
40	[illegible]	[illegible]	[illegible]	[illegible]	4.73	5.48	6.23	6.59	6.95	7.66	8.39	9.10	9.79	10.47	11.15	11.81
41	[illegible]	[illegible]	[illegible]	4.17	4.98	5.77	6.55	6.94	7.32	8.08	8.83	9.58	10.31	11.03	11.74	12.44
42	1.79	2.66	3.53	4.38	5.23	6.06	6.88	7.29	7.69	8.50	9.29	10.07	10.84	11.60	12.35	13.09
43	[illegible]	[illegible]	[illegible]	[illegible]	5.48	6.36	7.22	7.65	8.07	8.92	9.75	10.57	11.38	12.18	12.97	13.75
44	1.96	2.92	3.88	4.82	5.74	6.66	7.57	8.02	8.47	9.35	10.22	11.09	11.94	12.78	13.61	14.43
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.98	7.93	8.40	8.87	9.79	10.71	11.61	12.51	13.39	14.26	15.12
46	2.14	3.20	4.24	5.27	6.29	7.30	8.29	8.78	9.27	10.25	11.21	12.16	13.09	14.02	14.93	15.84
47	2.24	3.34	4.43	5.51	6.57	7.62	8.66	9.18	9.69	10.71	11.71	12.71	13.69	14.66	15.62	16.57
48	2.34	3.48	4.62	5.75	6.86	7.96	9.04	9.58	10.12	11.18	12.23	13.27	14.30	15.32	16.32	17.31
49	2.43	3.63	4.82	5.99	7.15	8.30	9.43	10.00	10.56	11.67	12.76	13.85	14.92	15.99	17.04	18.07
50	2.54	3.78	5.02	6.24	7.45	8.65	9.83	10.42	11.00	12.16	13.31	14.44	15.56	16.67	17.77	18.85
51	2.64	3.94	5.22	6.50	7.76	9.00	10.24	10.85	11.46	12.66	13.86	15.04	16.21	17.37	18.51	19.64
52	2.74	4.09	5.43	6.76	8.07	9.37	10.65	11.29	11.92	13.18	14.42	15.66	16.88	18.08	19.27	20.46
53	2.85	4.25	5.65	7.02	8.39	9.74	11.07	11.73	12.39	13.70	15.00	16.28	17.55	18.81	20.05	21.28
54	2.96	4.42	5.86	7.29	8.71	10.11	11.50	12.19	12.88	14.24	15.59	16.92	18.24	19.55	20.85	22.13
55	3.07	4.58	6.08	7.57	9.04	10.50	11.94	12.66	13.37	14.78	16.19	17.57	18.95	20.31	21.65	22.99
56	3.18	4.75	6.31	7.85	9.38	10.89	12.39	13.13	13.87	15.34	16.80	18.24	19.66	21.08	22.48	23.86
57	[illegible]	[illegible]	[illegible]	8.14	9.72	11.29	12.84	13.61	14.38	15.91	17.42	18.91	20.39	21.86	23.32	24.75
58	3.42	5.10	6.77	8.43	10.07	11.69	13.30	14.10	14.90	16.48	18.05	19.60	21.14	22.66	24.17	25.66
59	3.54	5.28	7.01	8.72	10.42	12.11	13.78	14.60	15.43	17.07	18.69	20.30	21.90	23.47	25.04	26.59
60	3.66	5.46	7.25	9.03	10.78	12.53	14.25	15.11	15.97	17.66	19.35	21.01	22.67	24.30	25.92	27.53

* [illegible]

Table 20.--Log weights for scaling lengths of 34 to 60 feet: density index = 46 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=46

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.13	.13	.13	.12	.12	.12	.12	.11	.11	.11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	.21	[illegible]	[illegible]	.20	.19	.19	.19	.18	.17	.17	.16	.15
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.30	[illegible]	.30	.30	.30	.30	.29	.29	.28	.27	.27
9	.41	.41	.41	.42	.43	.43	.43	.43	.43	.43	.43	.43	.43	.42	.42	.41
10	.53	.54	.55	.56	.57	.58	.58	.58	.59	.59	.59	.59	.59	.59	.59	.59
11	.68	.69	.70	.72	.73	.74	.75	.76	.77	.77	.78	.79	.79	.79	.79	.79
12	.84	.86	.87	.89	.91	.93	.94	.95	.97	.98	.99	1.00	1.01	1.02	1.02	1.03
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.17	1.19	1.21	1.23	1.25	1.26	1.27	1.28	1.29
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.47	[illegible]	1.52	1.54	1.56	[illegible]	1.59
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.68	1.71	1.75	1.79	1.82	[illegible]	1.87	[illegible]	1.92
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.91	[illegible]	[illegible]	2.01	[illegible]	[illegible]	2.14	[illegible]	2.21	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.24	[illegible]	[illegible]	[illegible]	2.44	2.49	2.54	2.59	[illegible]	2.67
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.74	2.81	[illegible]	[illegible]	2.99	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.28	[illegible]	3.41	[illegible]	3.54
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.71	3.79	3.87	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.26	4.36	[illegible]	4.57
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.16	[illegible]	4.41	[illegible]	4.66	4.76	4.87	4.97	5.07
23	3.78	3.87	3.95	4.12	4.28	4.44	4.52	4.59	4.74	4.89	5.03	5.16	5.29	5.41	5.53	5.65
24	4.15	4.25	4.34	4.53	4.71	4.89	4.98	5.06	5.23	5.39	5.55	5.70	5.84	5.98	6.12	6.25
25	4.54	4.65	4.75	4.96	5.16	5.36	5.46	5.55	5.74	5.92	6.09	6.26	6.43	6.58	6.74	6.89
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.04	7.21	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.47	7.67	7.87	[illegible]	8.25
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.11	8.34	8.56	8.77	8.99
29	[illegible]	[illegible]	[illegible]	[illegible]	7.17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.03	9.27	9.51	9.74
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.75	10.02	10.27	10.53
31	7.24	7.42	7.60	7.95	8.29	8.63	8.79	8.96	9.28	9.60	9.90	10.21	10.50	10.79	11.07	11.35
32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.28	11.59	[illegible]	[illegible]
33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.36	11.73	[illegible]	12.42	12.75	13.08
34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.37	11.77	12.16	12.54	12.91	13.28	13.64	13.99
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.11	12.54	[illegible]	[illegible]	13.77	14.17	[illegible]	14.93
36	9.97	10.22	10.47	10.97	11.46	11.94	12.18	12.42	12.88	13.34	13.79	14.23	14.66	15.08	15.50	15.91
37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.64	15.11	15.57	16.03	16.47	16.91
38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.94
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.48	[illegible]	[illegible]	[illegible]
40	12.46	12.79	13.11	13.74	14.37	14.98	15.29	15.59	16.19	16.77	17.35	17.92	18.48	19.03	19.57	20.11
41	13.13	13.47	13.81	14.48	15.14	15.80	16.12	16.44	17.07	17.69	18.31	18.91	19.51	20.09	20.67	21.23
42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.64	22.30	[illegible]	23.58
44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.75	23.44	24.12	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.27	19.67	[illegible]	[illegible]	[illegible]	[illegible]	23.14	[illegible]	24.61	25.34	[illegible]
46	16.73	17.17	17.61	18.48	19.34	20.19	20.61	21.02	21.85	22.66	23.47	24.26	[illegible]	25.82	[illegible]	27.37
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25.41	26.24	[illegible]	[illegible]	28.64
48	18.29	18.78	19.26	20.22	21.16	22.09	22.56	23.02	23.93	24.83	25.71	26.59	27.45	[illegible]	[illegible]	[illegible]
49	19.10	19.61	20.11	21.11	22.10	23.08	23.56	[illegible]	25.00	25.94	26.87	27.79	28.70	29.60	30.48	31.36
50	19.92	20.45	20.98	22.03	23.06	24.09	24.59	25.10	26.10	27.08	28.06	29.02	29.98	[illegible]	[illegible]	[illegible]
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29.27	[illegible]	31.28	[illegible]	[illegible]	34.19
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.17	[illegible]	[illegible]	[illegible]	29.44	[illegible]	31.56	[illegible]	33.64	[illegible]	35.66
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.77	32.87	[illegible]	[illegible]	[illegible]	37.16
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.21	35.39	36.47	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35.57	36.76	[illegible]	[illegible]	[illegible]
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	39.67	[illegible]	[illegible]	[illegible]
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41.16	42.49	[illegible]	[illegible]
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	42.79	44.24	[illegible]	[illegible]	[illegible]

* 1 KIPS [illegible]

Table 21.--Log weights for scaling lengths of 4 to 32 feet: density index = 48 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=48

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.04	.05	.06	.08	.09	.10	.11	.11	.11	.12	.12	.13	.13	.13	.13	.13
7	.05	.07	.09	.11	.12	.14	.15	.16	.16	.18	.18	.19	.20	.20	.21	.21
8	.06	.09	.12	.14	.17	.19	.21	.22	.23	.24	.26	.27	.28	.29	.30	.30
9	.08	.12	.15	.19	.22	.25	.27	.29	.30	.32	.34	.36	.37	.39	.40	.41
10	.10	.15	.19	.23	.27	.31	.34	.36	.38	.41	.43	.46	.48	.50	.52	.54
11	.12	.18	.24	.29	.34	.38	.43	.45	.47	.51	.54	.58	.61	.64	.66	.69
12	.15	.22	.28	.35	.40	.46	.52	.54	.57	.61	.66	.70	.74	.78	.82	.85
13	.17	.26	.33	.41	.48	.55	.61	.65	.68	.73	.79	.84	.89	.94	.99	1.03
14	.20	.30	.39	.48	.56	.64	.72	.76	.79	.87	.93	1.00	1.06	1.12	1.17	1.22
15	.23	.34	.45	.55	.65	.74	.84	.88	.92	1.01	1.09	1.16	1.24	1.31	1.37	1.44
16	.27	.39	.51	.63	.74	.85	.96	1.01	1.06	1.16	1.25	1.34	1.43	1.51	1.59	1.67
17	.30	.44	.58	.72	.85	.97	1.09	1.15	1.21	1.32	1.43	1.53	1.64	1.73	1.82	1.91
18	.34	.50	.65	.81	.95	1.09	1.23	1.30	1.37	1.49	1.62	1.74	1.86	1.97	2.07	2.18
19	.38	.56	.73	.90	1.07	1.23	1.38	1.46	1.53	1.68	1.82	1.96	2.09	2.22	2.34	2.46
20	.42	.62	.81	1.00	1.19	1.37	1.54	1.63	1.71	1.87	2.03	2.19	2.34	2.48	2.62	2.76
21	.46	.68	.91	1.11	1.31	1.51	1.71	1.80	1.90	2.09	2.26	2.43	2.60	2.76	2.92	3.07
22	.51	.75	.99	1.22	1.45	1.67	1.89	1.99	2.09	2.30	2.49	2.69	2.88	3.06	3.23	3.41
23	.55	.82	1.08	1.34	1.59	1.83	2.07	2.18	2.30	2.52	2.74	2.96	3.16	3.37	3.56	3.76
24	.60	.89	1.18	1.46	1.73	2.00	2.26	2.39	2.51	2.76	3.00	3.24	3.47	3.69	3.91	4.12
25	.65	.97	1.28	1.59	1.88	2.17	2.46	2.60	2.74	3.01	3.27	3.53	3.79	4.03	4.27	4.51
26	.71	1.05	1.39	1.72	2.04	2.36	2.67	2.82	2.97	3.27	3.56	3.84	4.12	4.39	4.65	4.91
27	.76	1.14	1.50	1.86	2.21	2.55	2.89	3.05	3.21	3.54	3.85	4.16	4.46	4.76	5.05	5.33
28	.82	1.22	1.62	2.00	2.38	2.75	3.11	3.29	3.47	3.82	4.16	4.49	4.82	5.14	5.46	5.76
29	.88	1.31	1.74	2.15	2.56	2.96	3.35	3.54	3.73	4.11	4.48	4.84	5.19	5.54	5.88	6.22
30	.94	1.41	1.86	2.30	2.74	3.17	3.59	3.80	4.00	4.41	4.81	5.20	5.58	5.96	6.32	6.68
31	1.01	1.51	1.99	2.46	2.93	3.39	3.84	4.07	4.29	4.72	5.15	5.57	5.98	6.39	6.79	7.17
32	1.08	1.61	2.12	2.63	3.13	3.62	4.10	4.34	4.58	5.05	5.51	5.95	6.40	6.83	7.26	7.68
33	1.15	1.71	2.26	2.80	3.33	3.86	4.37	4.63	4.88	5.38	5.87	6.35	6.83	7.30	7.75	8.20
34	1.22	1.81	2.40	2.97	3.54	4.10	4.65	4.92	5.19	5.72	6.25	6.76	7.27	7.77	8.25	8.73
35	1.29	1.92	2.54	3.16	3.76	4.35	4.94	5.23	5.51	6.08	6.64	7.18	7.72	8.25	8.77	9.29
36	1.37	2.03	2.69	3.34	3.98	4.61	5.23	5.54	5.84	6.44	7.04	7.62	8.19	8.76	9.32	9.86
37	1.44	2.14	2.85	3.53	4.21	4.88	5.54	5.86	6.18	6.82	7.45	8.07	8.68	9.28	9.87	10.45
38	1.52	2.27	3.00	3.73	4.45	5.15	5.85	6.19	6.53	7.21	7.87	8.53	9.18	9.81	10.44	11.06
39	1.60	2.39	3.17	3.93	4.69	5.43	6.17	6.53	6.89	7.61	8.31	9.00	9.69	10.36	11.03	11.68
40	1.69	2.52	3.33	4.14	4.94	5.72	6.50	6.88	7.26	8.02	8.76	9.49	10.21	10.93	11.63	12.32
41	1.77	2.64	3.51	4.36	5.19	6.02	6.83	7.24	7.64	8.43	9.22	9.99	10.75	11.51	12.25	12.98
42	1.86	2.77	3.68	4.57	5.45	6.32	7.18	7.61	8.03	8.86	9.69	10.51	11.31	12.11	12.88	13.65
43	1.95	2.91	3.86	4.80	5.72	6.63	7.54	7.99	8.43	9.31	10.17	11.03	11.89	12.71	13.53	14.35
44	2.05	3.05	4.04	5.03	5.99	6.95	7.90	8.37	8.84	9.76	10.67	11.57	12.46	13.33	14.20	15.05
45	2.14	3.19	4.23	5.26	6.26	7.27	8.27	8.76	9.25	10.22	11.17	12.12	13.05	13.97	14.88	15.78
46	2.24	3.34	4.42	5.50	6.56	7.61	8.65	9.17	9.68	10.69	11.69	12.68	13.66	14.63	15.58	16.53
47	2.34	3.49	4.62	5.74	6.86	7.95	9.04	9.58	10.11	11.17	12.22	13.26	14.29	15.30	16.30	17.29
48	2.44	3.64	4.82	5.99	7.16	8.30	9.44	10.00	10.56	11.67	12.77	13.85	14.92	15.98	17.03	18.06
49	2.54	3.79	5.03	6.25	7.46	8.66	9.84	10.43	11.02	12.17	13.32	14.45	15.57	16.68	17.75	18.86
50	2.65	3.95	5.24	6.51	7.77	9.02	10.26	10.87	11.48	12.69	13.89	15.07	16.24	17.39	18.54	19.67
51	2.75	4.11	5.45	6.79	8.09	9.39	10.68	11.32	11.96	13.22	14.46	15.70	16.92	18.12	19.32	20.50
52	2.86	4.27	5.67	7.05	8.42	9.77	11.11	11.78	12.44	13.75	15.05	16.34	17.61	18.87	20.11	21.34
53	2.97	4.44	5.89	7.33	8.75	10.16	11.55	12.25	12.93	14.30	15.65	16.99	18.32	19.63	20.92	22.21
54	3.09	4.61	6.12	7.61	9.10	10.55	12.00	12.72	13.44	14.86	16.27	17.66	19.04	20.41	21.75	23.09
55	3.20	4.78	6.35	7.90	9.43	10.95	12.46	13.21	13.95	15.43	16.89	18.34	19.77	21.19	22.59	23.99
56	3.32	4.96	6.58	8.19	9.78	11.36	12.93	13.70	14.47	16.01	17.53	19.03	20.52	21.99	23.45	24.90
57	3.44	5.14	6.82	8.49	10.14	11.78	13.40	14.20	15.01	16.60	18.17	19.73	21.28	22.81	24.33	25.83
58	3.56	5.32	7.07	8.79	10.51	12.20	13.89	14.73	15.55	17.20	18.83	20.45	22.06	23.65	25.22	26.78
59	3.69	5.51	7.31	9.10	10.88	12.63	14.37	15.24	16.11	17.81	19.51	21.18	22.85	24.50	26.13	27.75
60	3.82	5.70	7.57	9.42	11.25	13.07	14.87	15.77	16.66	18.43	20.19	21.93	23.65	25.36	27.05	28.73

* 1KIP=1000 POUNDS

Table 22.--Log weights for scaling lengths of 34 to 60 feet: density index = 48 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=48

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.13	.13	.13	.13	.13	.12	.12	.12	.12	.11	.11	.10	.09	.09	.08	.08
7	.21	.21	.21	.21	.21	.21	.21	.21	.20	.20	.19	.19	.18	.18	.17	.16
8	.31	.31	.31	.32	.32	.32	.32	.32	.32	.31	.31	.30	.30	.29	.29	.28
9	.42	.43	.43	.44	.44	.45	.45	.45	.45	.45	.45	.45	.45	.44	.44	.43
10	.56	.56	.57	.58	.59	.60	.61	.61	.61	.62	.62	.62	.62	.62	.62	.61
11	.71	.72	.73	.75	.76	.78	.78	.79	.80	.81	.82	.82	.82	.83	.83	.82
12	[illegible]	[illegible]	.91	[illegible]	.95	.98	.98	.99	1.01	1.02	1.04	1.05	1.06	1.06	1.07	1.07
13	[illegible]	[illegible]	[illegible]	1.14	1.17	[illegible]	1.21	1.22	1.25	1.27	1.29	1.30	1.32	1.33	1.34	1.35
14	[illegible]	[illegible]	[illegible]	[illegible]	1.41	[illegible]	1.46	1.47	1.51	1.53	1.56	1.59	1.61	1.63	1.64	1.66
15	[illegible]	[illegible]	[illegible]	1.61	[illegible]	1.70	1.73	1.75	1.79	1.83	1.86	1.90	1.93	1.95	1.98	2.00
16	1.74	1.77	1.81	1.87	1.93	1.99	2.02	2.05	[illegible]	2.15	2.19	2.24	2.27	2.31	2.34	2.38
17	[illegible]	[illegible]	[illegible]	2.16	[illegible]	2.30	2.34	2.37	2.43	2.49	2.55	2.60	2.65	2.70	2.74	2.78
18	[illegible]	[illegible]	[illegible]	2.46	[illegible]	2.63	2.67	2.71	2.79	2.86	2.93	3.00	3.06	3.12	3.17	3.22
19	2.57	[illegible]	[illegible]	2.79	[illegible]	2.99	3.04	[illegible]	3.17	3.26	3.34	3.42	3.49	3.56	3.63	3.69
20	[illegible]	[illegible]	[illegible]	3.14	3.26	3.37	3.42	3.48	3.58	3.68	3.78	3.87	3.96	4.04	4.12	4.19
21	3.22	3.29	3.37	3.50	3.54	3.77	3.83	3.89	4.01	4.13	4.24	4.35	4.45	4.55	4.64	4.73
22	3.57	3.65	3.74	3.89	4.04	4.19	4.26	4.33	4.47	4.60	4.73	4.85	4.97	5.08	5.19	5.30
23	3.94	4.03	4.12	4.30	4.47	4.63	4.72	4.79	4.95	5.10	5.24	5.38	5.52	5.65	5.77	5.89
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.19	5.28	5.46	5.62	5.79	5.94	6.10	6.24	6.39	6.52
25	4.74	[illegible]	[illegible]	5.18	[illegible]	[illegible]	[illegible]	[illegible]	5.90	6.17	6.36	6.53	6.71	6.87	7.03	7.19
26	[illegible]	[illegible]	5.41	5.64	[illegible]	[illegible]	6.22	6.33	6.54	6.75	6.95	7.15	7.34	7.53	7.71	7.88
27	[illegible]	5.74	[illegible]	[illegible]	[illegible]	6.64	6.76	6.88	7.12	[illegible]	7.58	7.79	8.01	8.21	8.41	8.61
28	6.06	6.21	6.36	6.64	6.92	7.20	7.33	7.46	7.72	7.98	8.23	8.47	8.70	8.93	9.15	9.37
29	6.54	6.70	6.86	7.17	7.48	7.78	7.92	8.07	8.35	8.63	8.90	9.17	9.42	9.68	9.92	10.16
30	[illegible]	7.21	[illegible]	7.72	[illegible]	[illegible]	8.54	[illegible]	[illegible]	[illegible]	[illegible]	9.89	10.18	10.45	10.72	10.98
31	[illegible]	7.74	7.93	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.68	[illegible]	[illegible]	10.65	10.96	11.26	11.55	11.84
32	[illegible]	[illegible]	[illegible]	[illegible]	9.27	[illegible]	9.84	[illegible]	[illegible]	10.74	[illegible]	11.43	11.77	12.09	12.41	12.73
33	[illegible]	[illegible]	[illegible]	9.49	[illegible]	[illegible]	10.52	[illegible]	11.11	11.50	11.87	12.24	12.61	12.96	13.31	13.65
34	9.21	9.44	[illegible]	10.13	10.57	[illegible]	11.23	11.44	11.86	12.28	12.68	13.08	13.47	13.86	14.23	14.60
35	9.79	[illegible]	10.29	10.78	11.26	11.73	11.96	12.19	12.64	13.08	13.52	13.95	14.37	14.78	15.19	15.58
36	[illegible]	10.67	10.93	11.45	11.96	12.46	12.71	12.96	13.44	13.92	14.38	14.84	15.29	15.74	16.17	16.60
37	[illegible]	11.31	[illegible]	12.14	12.69	[illegible]	[illegible]	[illegible]	14.27	14.77	15.27	15.77	16.25	16.72	17.19	17.64
38	11.67	11.97	12.26	12.85	13.43	14.00	14.28	14.56	15.12	15.66	16.19	16.72	17.23	17.74	18.24	18.72
39	12.33	12.64	12.95	13.59	[illegible]	14.81	15.11	[illegible]	[illegible]	16.57	17.14	17.69	18.24	18.78	19.31	19.84
40	13.00	13.34	13.68	14.34	14.99	15.63	15.95	16.27	16.89	17.50	18.11	18.70	19.28	19.86	20.42	20.98
41	[illegible]	14.06	14.41	15.11	[illegible]	16.48	16.82	[illegible]	17.81	18.46	19.10	19.73	20.35	20.96	21.57	22.16
42	14.42	14.79	15.17	15.91	16.64	17.35	17.71	[illegible]	18.76	19.45	20.13	20.79	21.45	22.10	22.74	23.36
43	[illegible]	[illegible]	15.94	16.72	17.49	18.25	18.62	[illegible]	19.73	20.46	21.18	21.88	22.58	23.26	23.94	24.61
44	[illegible]	[illegible]	[illegible]	17.55	18.36	19.16	19.56	19.95	[illegible]	[illegible]	22.25	23.00	23.74	24.46	25.17	[illegible]
45	[illegible]	17.11	17.54	18.41	19.26	20.10	20.52	20.93	21.75	22.56	23.36	24.15	24.92	25.69	26.44	27.18
46	17.46	17.92	18.38	19.28	20.18	21.06	21.50	21.94	22.80	23.65	24.49	25.32	26.13	26.94	27.73	28.52
47	18.26	18.75	19.23	20.18	21.12	22.05	22.51	22.97	23.87	24.76	25.65	26.52	27.38	28.22	29.06	29.89
48	19.09	19.59	20.10	21.09	22.08	23.05	23.54	24.02	24.97	25.90	26.83	27.75	28.65	29.54	30.42	31.29
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.08	[illegible]	[illegible]	[illegible]	[illegible]	28.04	[illegible]	[illegible]	[illegible]	[illegible]	32.72
50	20.79	21.34	21.89	22.99	24.07	25.13	25.66	26.19	27.23	28.26	29.28	30.29	31.28	32.26	33.23	34.18
51	21.67	22.25	22.82	23.96	25.09	26.21	26.76	27.31	28.40	29.48	30.54	31.60	32.64	33.66	34.68	35.68
52	22.56	23.17	23.77	24.96	26.14	[illegible]	27.88	28.46	[illegible]	[illegible]	31.84	32.94	34.02	35.10	36.16	37.21
53	23.48	24.11	24.73	25.98	27.21	28.42	29.03	[illegible]	[illegible]	31.99	33.15	34.30	35.44	36.56	37.67	38.77
54	24.41	25.07	25.72	[illegible]	[illegible]	[illegible]	30.19	[illegible]	[illegible]	33.28	[illegible]	[illegible]	36.88	38.06	39.22	40.36
55	[illegible]	[illegible]	26.72	28.07	29.41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35.87	37.12	38.36	39.58	40.79	41.99
56	[illegible]	[illegible]	27.75	29.15	30.54	31.91	[illegible]	33.27	34.62	[illegible]	37.27	38.57	39.86	41.14	42.49	43.65
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.57	[illegible]	37.32	38.69	40.05	41.39	42.72	44.03	45.34
58	28.32	29.19	29.85	31.37	32.87	34.35	35.09	35.82	37.28	38.72	40.14	41.55	42.95	44.37	45.70	47.06
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	37.13	38.64	40.14	41.62	[illegible]	44.54	45.98	47.40	48.81
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	38.46	[illegible]	41.59	43.17	44.65	46.16	47.65	49.13	50.60

* 1KIP=1 [illegible]

Table 23.--Log weights for scaling lengths of 4 to 32 feet: density index = 50 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=50

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.04	.05	.07	.08	.09	.10	.11	.11	.12	.12	.13	.13	.14	.14	.14	.14
7	.05	.07	.09	.11	.13	.15	.16	.17	.17	.18	.19	.20	.21	.21	.22	.22
8	.07	.10	.12	.15	.17	.20	.22	.23	.24	.25	.27	.28	.29	.30	.31	.32
9	.09	.12	.16	.19	.23	.26	.28	.30	.31	.33	.35	.37	.39	.41	.42	.43
10	.11	.15	.20	.24	.28	.32	.36	.38	.39	.42	.45	.48	.50	.53	.55	.56
11	.13	.19	.25	.30	.35	.40	.44	.47	.49	.53	.56	.60	.63	.66	.69	.71
12	.15	.23	.29	.36	.42	.48	.54	.56	.59	.64	.69	.73	.77	.81	.85	.88
13	.18	.27	.35	.43	.50	.57	.64	.67	.70	.77	.82	.88	.93	.98	1.03	1.07
14	.21	.31	.41	.50	.59	.67	.75	.79	.83	.90	.97	1.04	1.10	1.16	1.22	1.27
15	.24	.36	.47	.57	.68	.78	.87	.92	.96	1.05	1.13	1.21	1.29	1.36	1.43	1.50
16	.28	.41	.53	.66	.78	.89	1.00	1.05	1.11	1.21	1.30	1.40	1.49	1.57	1.66	1.74
17	.31	.46	.61	.75	[illegible]	[illegible]	1.14	[illegible]	1.26	[illegible]	1.49	[illegible]	[illegible]	[illegible]	[illegible]	1.99
18	.35	.52	.68	.84	.99	1.14	1.28	1.35	1.42	1.56	1.69	1.81	1.93	2.05	2.16	2.27
19	.39	.58	.76	.94	1.11	1.28	1.44	1.52	1.60	1.75	1.90	2.04	2.18	2.31	2.44	2.56
20	.43	.64	.85	1.04	1.24	1.42	1.60	1.69	1.78	1.95	2.12	2.28	2.43	2.59	2.73	2.87
21	.48	.71	.93	1.15	1.37	1.58	1.78	1.88	2.07	2.17	2.35	2.53	2.71	2.88	3.04	3.20
22	.53	[illegible]	[illegible]	1.27	1.51	1.74	[illegible]	[illegible]	2.18	[illegible]	[illegible]	[illegible]	[illegible]	3.18	3.37	3.55
23	[illegible]	[illegible]	1.13	[illegible]	[illegible]	[illegible]	2.17	2.27	2.39	2.63	2.86	3.08	[illegible]	3.51	3.71	3.91
24	.63	.93	1.23	1.52	1.80	2.08	2.35	2.49	2.62	2.88	3.13	3.37	3.61	3.85	4.07	4.30
25	.68	1.01	1.34	1.65	1.96	2.26	2.56	2.71	2.85	3.13	3.41	3.68	3.94	4.20	4.45	4.70
26	.74	1.10	1.45	1.79	2.13	2.46	2.78	2.94	3.09	3.40	3.71	4.00	4.29	4.57	4.85	5.11
27	[illegible]	1.18	1.56	1.93	[illegible]	[illegible]	[illegible]	3.18	3.35	3.65	4.01	4.33	4.65	4.96	5.26	5.55
28	.86	1.27	1.68	2.08	2.48	2.86	3.24	3.43	3.61	3.98	4.33	4.68	5.02	5.36	5.68	6.00
29	.92	1.37	1.81	2.24	2.66	3.08	3.49	3.69	3.89	4.28	4.66	5.04	5.41	5.77	6.13	6.47
30	.99	1.47	1.94	2.40	2.86	3.30	3.74	3.96	4.17	4.59	5.01	5.42	5.81	6.20	6.59	6.96
31	1.05	1.57	2.07	2.57	3.05	3.53	[illegible]	4.24	4.47	4.92	5.36	5.80	6.23	6.65	7.07	7.47
32	1.12	1.67	2.21	2.74	3.26	3.77	4.27	4.52	4.77	5.26	5.73	6.20	6.66	7.12	7.56	8.00
33	1.19	1.78	2.35	2.92	3.47	4.02	4.56	4.82	5.09	5.60	6.11	6.62	7.11	7.59	8.07	8.54
34	1.27	1.89	2.50	3.10	3.69	4.27	4.84	5.13	5.41	5.96	6.51	7.04	7.57	8.09	8.60	9.10
35	1.34	[illegible]	2.65	3.29	3.92	4.53	5.14	5.44	5.74	6.33	6.91	7.48	8.05	8.60	9.14	9.68
36	1.42	2.12	2.81	3.48	4.15	4.80	5.45	5.77	6.09	6.71	7.33	7.94	8.54	9.12	9.70	10.27
37	[illegible]	2.24	2.97	3.68	4.39	5.08	5.77	[illegible]	6.44	7.11	7.76	8.41	9.04	9.67	10.28	10.89
38	1.59	2.36	3.13	3.89	4.63	5.37	6.09	6.45	6.81	7.51	8.2[illegible]	8.89	9.56	10.22	10.88	11.52
39	1.67	2.49	3.30	4.10	4.88	5.66	6.42	6.80	7.18	7.92	8.66	9.38	10.09	10.79	11.49	12.17
40	1.76	2.62	3.47	4.31	5.14	5.96	6.77	7.17	7.56	8.35	9.12	9.89	10.64	11.38	12.11	12.84
41	1.85	2.76	3.65	4.54	5.41	6.27	7.12	7.54	7.96	8.79	9.60	10.41	11.20	11.99	12.76	13.52
42	1.94	2.89	3.83	4.76	5.68	6.59	7.48	7.92	8.36	9.23	10.09	10.94	11.78	12.61	13.42	14.22
43	[illegible]	[illegible]	[illegible]	[illegible]	5.96	6.91	7.85	8.31	8.78	9.69	10.60	11.49	12.37	13.24	14.1[illegible]	14.94
44	2.1[illegible]	[illegible]	4.21	[illegible]	6.24	7.24	8.23	8.72	9.20	10.16	11.11	12.05	12.98	13.89	14.7[illegible]	15.68
45	2.23	3.33	4.41	5.48	6.54	7.58	8.62	9.13	9.64	10.64	11.64	12.62	13.60	14.56	15.50	16.44
46	2.33	3.48	4.61	5.73	6.84	7.93	9.01	9.55	10.08	11.14	12.18	13.21	14.23	15.24	16.23	17.21
47	2.43	[illegible]	[illegible]	[illegible]	7.14	8.29	9.42	9.98	10.53	11.64	12.73	13.81	14.88	15.93	16.98	18.01
48	[illegible]	[illegible]	[illegible]	[illegible]	7.44	[illegible]	9.83	10.42	[illegible]	12.16	[illegible]	14.43	15.54	16.65	17.74	18.82
49	[illegible]	[illegible]	[illegible]	6.51	[illegible]	[illegible]	10.25	10.87	11.47	12.68	13.87	15.05	16.22	17.38	18.52	19.64
50	[illegible]	[illegible]	5.45	6.78	8.10	[illegible]	10.69	11.32	11.96	13.22	14.46	15.70	16.91	18.12	19.31	20.49
51	[illegible]	[illegible]	[illegible]	[illegible]	8.43	9.79	11.13	11.79	12.45	13.77	15.07	16.35	17.62	18.88	20.12	21.35
52	2.98	4.45	5.90	7.34	8.77	10.18	11.58	12.27	12.96	14.33	15.68	17.02	18.34	19.65	20.95	22.23
53	[illegible]	[illegible]	[illegible]	7.63	9.11	10.58	12.03	12.76	13.47	[illegible]	16.30	[illegible]	19.08	20.44	[illegible]	23.13
54	3.22	4.80	6.37	7.93	9.47	10.99	12.50	13.25	14.00	15.48	16.94	18.39	19.83	21.25	22.66	24.05
55	3.34	[illegible]	6.61	8.23	[illegible]	11.41	12.98	13.76	14.53	16.07	17.59	19.10	20.59	22.07	23.54	24.98
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.84	13.46	14.27	15.08	16.67	18.26	19.82	21.37	22.91	24.43	25.94
57	[illegible]	[illegible]	7.11	[illegible]	[illegible]	12.27	13.96	14.80	15.63	17.29	18.93	20.56	22.17	23.76	25.34	26.91
58	[illegible]	[illegible]	7.35	[illegible]	10.94	12.71	14.46	15.33	16.20	17.91	19.62	21.30	22.98	24.63	26.27	27.90
59	[illegible]	[illegible]	[illegible]	[illegible]	11.33	13.16	14.97	15.87	16.77	18.55	20.32	22.07	23.80	25.52	27.22	28.90
60	3.97	5.94	7.88	9.81	11.72	13.62	15.49	16.43	17.36	19.20	21.03	22.84	24.64	26.42	28.18	29.92

* 1KIP=1,000 POUNDS

Table 24.--Log weights for scaling lengths of 34 to 60 feet: density index = 50 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=50

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)															
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.14	.14	.14	.14	.13	.13	.13	.12	.12	.12	.11	.10	.10	.09	.09	.08
7	.22	.22	.22	.22	.22	.22	.22	.22	.21	.21	.20	.20	.19	.18	.18	.17
8	.32	.32	.33	.33	.33	.33	.33	.33	.33	.33	.32	.32	.31	.31	.30	.29
9	.44	.45	.45	.46	.46	.47	.47	.47	.47	.47	.47	.47	.46	.46	.45	.45
10	.58	.59	.59	.61	.62	.63	.63	.63	.64	.64	.65	.65	.65	.64	.64	.64
11	.74	.75	.76	.78	.79	.81	.82	.82	.83	.84	.85	.85	.86	.86	.86	.86
12	.91	.93	.94	.97	.99	1.02	1.03	1.04	1.05	1.07	1.08	1.09	1.10	1.11	1.11	1.12
13	1.11	[illegible]	1.15	1.18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.34	1.36	1.37	1.39	1.40	1.41
14	1.32	[illegible]	1.37	1.42	1.46	[illegible]	[illegible]	[illegible]	1.57	[illegible]	1.63	1.65	1.67	1.69	1.71	1.73
15	1.56	1.59	1.62	1.67	1.73	1.77	1.80	1.82	1.86	1.90	1.94	1.98	2.01	2.04	2.06	2.08
16	[illegible]	[illegible]	1.88	1.95	2.01	2.07	[illegible]	[illegible]	2.19	2.24	2.28	2.33	2.37	2.41	2.44	2.47
17	[illegible]	2.12	2.17	2.25	2.32	2.40	2.43	2.47	[illegible]	2.60	2.65	2.71	2.76	2.81	2.86	2.90
18	[illegible]	[illegible]	2.47	2.57	[illegible]	2.74	2.79	[illegible]	2.91	2.98	3.05	3.12	3.18	3.24	3.30	3.35
19	[illegible]	[illegible]	[illegible]	2.91	[illegible]	3.11	[illegible]	[illegible]	3.31	[illegible]	3.49	3.56	3.64	3.71	3.78	3.84
20	[illegible]	[illegible]	[illegible]	3.27	[illegible]	3.41	[illegible]	[illegible]	[illegible]	[illegible]	3.93	4.03	4.12	4.21	4.29	4.37
21	3.36	3.43	3.51	3.65	3.79	3.92	3.99	4.05	4.18	4.30	4.42	4.53	4.63	4.73	4.83	4.93
22	3.72	3.81	3.89	4.05	4.21	4.36	4.44	4.51	4.65	4.79	4.92	5.05	5.18	5.29	5.41	5.52
23	4.11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.91	[illegible]	5.16	5.31	5.46	5.61	5.75	5.88	6.01	6.14
24	4.51	4.62	4.72	4.92	5.12	5.31	5.41	5.50	5.68	5.86	6.03	6.19	6.35	6.51	6.65	6.80
25	4.93	5.05	5.17	5.39	5.61	5.83	5.93	6.03	6.23	6.43	6.62	6.81	6.98	7.16	7.33	7.49
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.47	[illegible]	[illegible]	[illegible]	7.24	[illegible]	7.65	7.84	8.03	8.21
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.97	7.14	[illegible]	7.42	7.66	7.89	8.12	8.34	8.56	8.77	8.97
28	6.32	6.47	6.62	6.92	7.21	7.50	7.64	7.77	8.05	8.31	8.57	8.82	9.06	9.30	9.53	9.76
29	[illegible]	[illegible]	[illegible]	7.47	[illegible]	8.11	[illegible]	[illegible]	[illegible]	8.99	9.27	9.55	9.82	10.08	10.33	10.58
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.38	[illegible]	[illegible]	10.31	10.60	10.89	11.17	11.44
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.74	[illegible]	10.43	10.77	11.09	11.41	11.73	[illegible]	12.33
32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.19	[illegible]	11.91	12.26	12.60	[illegible]	13.26
33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.17	[illegible]	[illegible]	12.37	12.75	13.13	13.50	[illegible]	14.21
34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.42	[illegible]	[illegible]	[illegible]	12.79	13.21	13.63	14.03	14.43	14.82	15.21
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.17	[illegible]	14.08	14.53	14.97	15.40	15.82	16.23
36	[illegible]	11.21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.46	15.93	16.39	16.85	17.29
37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.39	15.91	16.42	16.93	17.42	[illegible]	18.38
38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.31	16.87	17.41	17.95	18.48	[illegible]	[illegible]
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.26	17.85	18.43	[illegible]	19.57	20.12	20.66
40	13.55	13.90	14.25	14.94	15.62	16.29	16.62	16.94	17.59	18.23	18.86	19.48	20.09	20.69	21.28	21.85
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.20	21.84	22.46	23.08
42	15.02	15.41	15.80	16.57	17.33	18.08	18.45	18.82	19.54	20.26	20.97	21.66	22.35	23.02	23.68	24.34
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.71	[illegible]	[illegible]	23.52	24.23	24.94	25.63
44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.18	[illegible]	[illegible]	25.48	[illegible]	26.96
45	17.36	17.82	18.28	19.18	20.06	20.94	21.38	21.81	22.66	23.50	24.33	25.15	25.96	26.76	27.54	28.31
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.64	25.51	[illegible]	27.22	28.06	28.89	29.71
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.47	[illegible]	26.72	[illegible]	28.52	29.40	30.27	31.13
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.51	[illegible]	27.95	[illegible]	29.94	30.77	[illegible]	32.59
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.20	32.17	33.13	34.08
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29.44	[illegible]	31.55	[illegible]	[illegible]	[illegible]	35.61
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.82	32.91	[illegible]	[illegible]	36.12	37.17
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	33.16	34.31	35.44	36.56	37.67	38.76
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35.73	[illegible]	[illegible]	39.24	40.39
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	37.10	[illegible]	39.64	[illegible]	42.05
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41.27	[illegible]	43.74
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44.16	45.46
57	28.46	29.23	29.99	31.51	33.01	34.50	35.24	35.97	37.43	38.88	40.30	41.72	43.12	44.50	45.87	47.22
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44.74	46.18	47.61	49.02
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44.98	46.40	47.89	49.38	50.84
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	39.14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	52.79

* [illegible]

Table 25.--Log weights for scaling lengths of 4 to 32 feet: density index = 52 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=52

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.04	.05	.07	.08	.11	.11	.11	.12	.12	.13	.13	.14	.14	.14	.15	.15
7	.05	.08	.10	.12	.14	.15	.17	.17	.18	.19	.20	.21	.21	.22	.22	.23
8	.07	.10	.13	.16	.18	.20	.23	.24	.24	.26	.28	.29	.30	.31	.32	.33
9	.09	.13	.17	.20	.24	.27	.29	.31	.32	.35	.37	.39	.41	.42	.44	.45
10	.11	.16	.21	.25	.30	.34	.37	.39	.41	.44	.47	.50	.52	.55	.57	.59
11	.13	.20	.25	.31	.36	.41	.46	.48	.51	.55	.59	.62	.66	.69	.72	.74
12	.16	.23	.31	.37	.44	.50	.56	.59	.61	.67	.72	.76	.81	.85	.88	.92
13	.19	.28	.36	.44	.52	.59	.66	.70	.73	.80	.86	.91	.97	1.02	1.07	1.11
14	.22	.32	.42	.52	.61	.70	.78	.82	.86	.94	1.01	1.08	1.15	1.21	1.27	1.32
15	.25	.37	.49	.60	.70	.81	.91	.95	1.00	1.09	1.18	1.26	1.34	1.42	1.49	1.56
16	.29	.42	.56	.68	.81	.93	1.04	1.09	1.15	1.26	1.36	1.45	1.55	1.64	1.72	1.81
17	.32	.48	.63	.78	.92	1.05	1.18	1.25	1.31	1.43	1.55	1.66	1.77	1.88	1.98	2.07
18	.36	.54	.71	.87	1.03	1.19	1.34	1.41	1.48	1.62	1.75	1.88	2.01	2.13	2.25	2.36
19	.41	.60	.79	.98	1.16	1.33	1.50	1.58	1.66	1.82	1.97	2.12	2.26	2.40	2.54	2.66
20	.45	.67	.88	1.09	1.29	1.48	1.67	1.76	1.85	2.03	2.20	2.37	2.53	2.69	2.84	2.99
21	.50	.74	.97	1.20	1.42	1.64	1.85	1.95	2.05	2.25	2.45	2.63	2.82	2.99	3.16	3.33
22	.55	.81	1.07	1.32	1.57	1.81	2.04	2.15	2.27	2.49	2.70	2.91	3.11	3.31	3.50	3.69
23	.60	.89	1.17	1.45	1.72	1.98	2.24	2.36	2.49	2.73	2.97	3.20	3.43	3.65	3.86	4.07
24	.65	.97	1.25	1.58	1.88	2.16	2.45	2.59	2.72	2.99	3.25	3.51	3.76	4.00	4.24	4.47
25	.71	1.05	1.39	1.72	2.04	2.36	2.66	2.82	2.96	3.26	3.55	3.83	4.10	4.37	4.63	4.88
26	.77	1.14	1.50	1.86	2.21	2.56	2.89	3.06	3.22	3.54	3.85	4.16	4.46	4.75	5.04	5.32
27	.83	1.23	1.63	2.01	2.39	2.76	3.13	3.31	3.48	3.83	4.17	4.51	4.83	5.15	5.47	5.77
28	.90	1.32	1.75	2.17	2.58	2.98	3.37	3.57	3.76	4.14	4.51	4.87	5.22	5.57	5.91	6.24
29	.96	1.42	1.88	2.33	2.77	3.20	3.63	3.84	4.04	4.45	4.85	5.24	5.63	6.00	6.37	6.73
30	1.02	1.52	2.01	2.50	2.97	3.43	3.89	4.12	4.34	4.78	5.21	5.63	6.05	6.45	6.85	7.24
31	1.09	1.63	2.15	2.67	3.18	3.67	4.16	4.40	4.64	5.12	5.58	6.03	6.48	6.92	7.35	7.77
32	1.17	1.74	2.31	2.85	3.39	3.92	4.45	4.71	4.96	5.47	5.96	6.45	6.93	7.40	7.86	8.32
33	1.24	1.85	2.44	3.03	3.61	4.18	4.74	5.01	5.29	5.83	6.36	6.88	7.39	7.90	8.39	8.88
34	1.32	1.96	2.60	3.22	3.84	4.44	5.04	5.33	5.62	6.20	6.77	7.33	7.87	8.41	8.94	9.46
35	1.40	2.08	2.76	3.42	4.07	4.72	5.35	5.66	5.97	6.59	7.19	7.79	8.37	8.94	9.51	10.06
36	1.48	2.20	2.92	3.62	4.31	5.00	5.67	6.00	6.33	6.98	7.62	8.26	8.88	9.49	10.09	10.68
37	1.56	2.33	3.08	3.83	4.56	5.28	6.00	6.35	6.70	7.39	8.07	8.74	9.40	10.05	10.69	11.32
38	1.65	2.46	3.26	4.04	4.82	5.58	6.33	6.71	7.08	7.81	8.53	9.24	9.94	10.63	11.31	11.98
39	1.74	2.59	3.43	4.26	5.08	5.89	6.68	7.09	7.47	8.24	9.00	9.76	10.50	11.23	11.95	12.65
40	1.83	2.73	3.61	4.49	5.35	6.20	7.04	7.45	7.87	8.68	9.49	10.28	11.07	11.84	12.60	13.35
41	1.92	2.87	3.80	4.72	5.62	6.52	7.40	7.84	8.28	9.14	9.98	10.82	11.65	12.47	13.27	14.06
42	2.02	3.01	3.98	4.95	5.91	6.85	7.78	8.24	8.70	9.60	10.50	11.38	12.25	13.11	13.96	14.79
43	2.12	3.16	4.18	5.20	6.20	7.19	8.16	8.65	9.13	10.08	11.02	11.95	12.87	13.77	14.66	15.54
44	2.22	3.30	4.35	5.44	6.49	7.53	8.56	9.06	9.57	10.57	11.56	12.53	13.50	14.45	15.39	16.31
45	2.32	3.46	[illegible]	[illegible]	[illegible]	7.89	8.96	9.49	10.02	11.07	12.11	13.13	14.14	15.14	16.12	17.10
46	2.42	3.61	4.79	5.96	7.11	8.25	9.37	9.93	10.48	11.58	12.67	13.74	14.80	15.85	16.88	17.90
47	2.53	3.78	5.01	6.22	7.43	8.62	9.79	10.38	10.96	12.11	13.24	14.37	15.48	16.57	17.66	18.73
48	2.64	3.94	5.22	6.49	7.75	8.99	10.22	10.83	11.44	12.64	13.83	15.00	16.17	17.31	18.45	19.57
49	2.75	4.11	5.45	6.77	8.08	9.38	10.66	11.30	11.93	13.19	14.43	15.66	16.87	18.07	19.26	20.43
50	2.87	4.28	5.67	7.05	8.42	9.77	11.11	11.78	12.44	13.75	15.04	16.32	17.59	18.84	20.08	21.31
51	2.98	4.45	5.90	7.34	8.77	10.18	11.57	12.26	12.95	14.32	15.67	17.00	18.33	19.63	20.93	22.21
52	3.10	4.63	6.14	7.64	9.12	10.59	12.04	12.76	13.48	14.90	16.31	17.70	19.08	20.44	21.79	23.12
53	3.22	4.81	6.38	7.94	9.48	11.01	12.52	13.27	14.01	15.49	16.96	18.41	19.84	21.26	22.67	24.06
54	3.35	4.99	6.63	8.24	9.85	11.43	13.00	13.78	14.56	16.10	17.62	19.13	20.62	22.10	23.56	25.01
55	3.47	5.18	6.88	8.56	10.22	11.87	13.50	14.31	15.11	16.71	18.30	19.87	21.42	22.96	24.48	25.98
56	3.60	5.37	7.13	8.87	10.61	12.31	14.01	14.84	15.68	17.34	18.99	20.62	22.23	23.83	25.41	26.97
57	3.73	5.57	7.39	9.20	10.99	12.76	14.52	15.39	16.26	17.98	19.69	21.38	23.05	24.71	26.35	27.98
58	3.86	5.77	7.66	9.53	11.38	13.22	15.04	15.94	16.84	18.63	20.40	22.16	23.90	25.62	27.32	29.01
59	4.00	5.97	7.92	9.86	11.78	13.69	15.57	16.51	17.44	19.29	21.13	22.95	24.75	26.54	28.31	30.06
60	4.13	6.17	8.20	10.20	12.19	14.16	16.11	17.08	18.05	19.97	21.87	23.75	25.62	27.47	29.31	31.12

* 1KIP=1,000 POUNDS

Table 26.--Log weights for scaling lengths of 34 to 60 feet: density index = 52 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=52

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.14	.14	.14	.14	.14	.13	.13	.13	.13	.12	.11	.11	.10	.10	.09	.08
7	.23	.23	.23	.23	.23	.23	.23	.22	.22	.22	.21	.20	.20	.19	.18	.17
8	.33	.34	.34	.34	.34	.34	.34	.34	.34	.34	.33	.33	.32	.32	.31	.30
9	.46	.46	.47	.48	.48	.49	.49	.49	.49	.49	.49	.49	.48	.48	.47	.46
10	.60	.61	.62	.63	.64	.65	.66	.66	.66	.67	.67	.67	.67	.67	.67	.66
11	.77	.78	.79	.81	.83	.84	.85	.86	.87	.88	.88	.89	.89	.89	.89	.89
12	[illegible]	[illegible]	[illegible]	1.01	[illegible]	1.06	1.07	1.08	1.09	1.11	1.12	[illegible]	1.14	1.15	[illegible]	1.16
13	[illegible]	1.17	[illegible]	1.23	1.26	1.30	1.31	1.32	1.35	1.37	1.39	[illegible]	[illegible]	1.44	[illegible]	1.46
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.56	1.58	1.60	1.63	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	1.65	1.69	1.74	1.79	1.85	1.87	1.89	1.94	1.98	2.02	[illegible]	[illegible]	2.12	[illegible]	2.17
16	[illegible]	1.92	1.96	2.03	[illegible]	2.16	2.19	2.22	2.27	2.33	2.38	[illegible]	2.46	2.51	[illegible]	2.57
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.49	2.53	2.57	2.63	2.70	2.76	2.82	2.87	2.92	[illegible]	[illegible]
18	2.47	2.52	2.57	2.67	2.76	2.85	2.90	2.94	3.02	3.10	3.18	3.25	3.31	3.37	[illegible]	[illegible]
19	2.79	2.85	2.91	3.02	3.13	3.24	3.29	3.34	3.44	3.53	3.62	3.70	3.78	3.86	[illegible]	[illegible]
20	3.13	3.20	3.27	3.40	3.53	3.65	3.71	3.77	3.88	3.99	4.09	4.19	4.26	4.38	4.46	4.54
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.08	4.15	4.22	4.35	4.47	4.59	4.71	4.82	4.92	5.03	5.12
22	3.87	3.96	4.05	4.22	4.38	4.54	4.62	4.69	4.84	4.98	5.12	5.25	5.38	5.51	5.62	5.74
23	[illegible]	[illegible]	4.47	4.66	[illegible]	[illegible]	5.11	5.19	5.36	5.52	5.69	5.83	5.98	6.12	6.25	6.39
24	4.69	4.80	4.91	5.12	5.33	5.53	5.63	5.72	5.91	6.09	6.27	6.44	6.61	6.77	6.92	7.07
25	5.13	5.25	5.37	5.61	5.84	6.06	6.17	6.27	6.48	6.69	6.89	7.08	7.26	7.44	7.62	7.79
26	[illegible]	[illegible]	[illegible]	6.11	[illegible]	6.61	6.73	6.85	[illegible]	7.31	7.53	7.75	7.95	8.15	8.35	8.54
27	6.07	6.22	6.36	6.64	6.92	7.19	7.33	7.46	7.71	7.96	8.21	8.44	8.67	8.90	9.12	9.33
28	6.57	6.73	6.89	7.20	7.50	7.80	7.94	8.09	8.37	8.64	8.91	9.17	9.43	9.67	9.92	10.15
29	[illegible]	[illegible]	[illegible]	7.77	[illegible]	8.42	8.58	8.74	9.05	9.35	9.64	9.93	10.21	10.48	10.75	11.01
30	[illegible]	[illegible]	[illegible]	[illegible]	8.72	[illegible]	9.25	9.42	9.76	10.08	10.41	10.72	11.02	11.32	11.61	11.90
31	[illegible]	[illegible]	[illegible]	[illegible]	9.37	9.75	9.94	10.13	10.49	10.85	11.20	11.54	11.87	12.20	12.51	12.83
32	[illegible]	[illegible]	[illegible]	9.62	[illegible]	[illegible]	10.66	10.96	11.25	11.64	12.02	12.39	12.75	13.10	13.45	13.79
33	9.36	9.59	9.83	10.29	10.74	11.18	11.40	11.61	12.04	12.46	12.86	13.26	13.66	14.04	14.42	14.78
34	9.97	10.23	10.48	10.97	11.45	11.93	12.16	12.39	12.85	13.30	13.74	14.17	14.60	15.01	15.42	15.81
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.95	[illegible]	13.69	14.18	14.65	15.11	15.57	16.01	16.45	16.88
36	11.27	11.55	11.84	12.40	12.96	13.50	13.77	14.04	14.56	15.08	15.58	16.08	16.57	17.05	17.52	17.98
37	[illegible]	[illegible]	[illegible]	[illegible]	13.74	[illegible]	14.61	14.89	15.45	16.01	16.55	17.08	17.60	18.12	18.62	19.12
38	12.64	12.96	13.29	13.92	14.55	15.17	15.48	15.78	16.38	16.96	17.54	18.11	18.67	19.22	19.76	20.28
39	13.35	13.70	14.04	14.72	15.38	16.04	16.37	16.69	17.32	17.95	18.56	19.17	19.76	20.35	20.92	21.49
40	14.09	14.45	14.82	15.53	16.24	16.94	17.28	17.62	18.30	18.96	19.61	20.26	20.89	21.51	22.13	22.73
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.86	18.22	18.59	19.31	[illegible]	[illegible]	21.39	22.05	22.71	23.36	24.00
42	15.62	16.02	16.43	17.23	18.02	18.80	19.19	19.57	20.32	21.07	21.80	22.53	23.24	23.94	24.63	25.31
43	16.41	16.84	17.27	18.11	18.95	19.77	20.18	20.58	21.38	22.17	22.94	23.71	24.46	25.20	25.94	26.66
44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20.76	21.19	21.62	22.46	23.29	24.11	24.92	25.71	26.50	27.27	28.03
45	[illegible]	[illegible]	[illegible]	19.94	20.87	21.78	22.23	22.68	23.57	24.44	25.31	26.16	27.00	27.83	28.64	29.45
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.29	23.77	24.70	25.62	26.53	27.43	28.31	29.19	30.05	30.89
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.38	[illegible]	25.96	26.83	27.70	28.73	29.66	30.58	31.48	32.38
48	[illegible]	[illegible]	[illegible]	[illegible]	23.92	[illegible]	25.50	26.02	27.05	28.06	29.07	30.06	31.04	32.00	32.95	33.89
49	[illegible]	[illegible]	[illegible]	23.57	[illegible]	[illegible]	26.64	27.18	28.26	29.33	30.38	31.42	32.44	33.46	34.46	35.45
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.80	28.37	29.50	30.62	31.72	32.81	33.88	34.95	[illegible]	37.03
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28.99	29.59	30.77	31.94	33.09	34.23	35.36	36.47	37.57	38.65
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30.21	30.83	32.06	33.26	34.40	35.58	36.86	38.02	39.17	40.31
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.44	32.09	33.39	34.66	35.92	37.16	38.39	39.61	40.81	42.00
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	32.71	33.39	34.73	36.06	37.37	38.67	39.96	41.23	42.49	43.73
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	33.29	[illegible]	[illegible]	36.10	37.49	38.86	40.21	41.55	42.88	44.19	45.49
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.57	35.31	36.04	37.50	38.95	40.37	41.78	43.18	44.56	45.93	47.28
57	[illegible]	[illegible]	[illegible]	32.77	34.33	35.88	36.65	37.41	38.93	40.43	41.92	43.39	44.84	46.28	47.70	49.11
58	[illegible]	31.51	[illegible]	[illegible]	[illegible]	37.21	38.01	38.81	40.39	41.94	43.49	45.02	46.53	48.03	49.51	50.98
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	38.57	39.40	40.23	41.86	43.48	45.09	46.69	48.25	49.81	51.35	52.88
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	39.95	40.81	41.67	43.37	45.05	46.72	48.37	50.01	51.62	53.23	54.81

* 1 KIP = 1 [illegible]

Table 27.--Log weights for scaling lengths of 4 to 32 feet: density index = 54 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=54

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.04	.06	.07	.09	.10	.11	.12	.12	.13	.13	.14	.14	.15	.15	.15	.15
7	.05	.08	.10	.12	.14	.16	.17	.18	.19	.20	.21	.22	.22	.23	.23	.24
8	.07	.10	.13	.16	.19	.21	.23	.24	.25	.27	.29	.30	.31	.33	.33	.34
9	.09	.13	.17	.21	.24	.28	.31	.32	.33	.36	.38	.40	.42	.44	.45	.47
10	.11	.17	.22	.26	.31	.35	.39	.41	.42	.46	.49	.52	.54	.57	.59	.61
11	.14	.20	.26	.32	.38	.43	.48	.50	.53	.57	.61	.65	.68	.71	.74	.77
12	.17	.24	.32	.39	.46	.52	.58	.61	.64	.69	.74	.79	.84	.88	.92	.95
13	.20	.29	.38	.46	.54	.62	.69	.73	.76	.83	.89	.95	1.01	1.06	1.11	1.16
14	.23	.33	.44	.54	.63	.72	.81	.85	.89	.97	1.05	1.12	1.19	1.26	1.32	1.38
15	.26	.39	.50	.62	.73	.84	.94	.99	1.04	1.13	1.22	1.31	1.39	1.47	1.54	1.62
16	.30	.44	.58	.71	.84	.96	1.08	1.14	1.19	1.30	1.41	1.51	1.61	1.70	1.79	1.87
17	.34	.50	.65	.80	.95	1.09	1.23	1.29	1.36	1.49	1.61	1.73	1.84	1.95	2.05	2.15
18	.38	.56	.74	.91	[illegible]	1.23	1.39	1.46	1.54	1.68	1.82	1.96	2.09	2.21	2.33	2.45
19	.42	.63	.82	1.01	1.20	1.38	1.56	1.64	1.72	1.89	2.05	2.20	2.35	2.49	2.63	2.77
20	.47	.69	.91	1.13	1.33	1.54	1.73	1.83	1.92	2.11	2.29	2.46	2.63	2.79	2.95	3.10
21	.52	.77	1.01	1.25	1.48	1.70	1.92	[illegible]	2.13	2.34	2.54	2.74	2.92	3.11	3.29	3.46
22	.57	.84	1.11	1.37	1.63	1.88	2.12	2.24	2.35	2.58	2.81	3.02	3.23	3.44	3.64	3.83
23	.62	.92	1.22	1.50	1.76	2.06	2.32	2.45	2.58	2.84	3.09	3.33	3.56	3.79	4.01	4.23
24	.68	[illegible]	1.33	1.64	1.95	2.25	2.54	2.68	2.83	3.11	3.38	3.64	3.90	4.15	4.40	4.64
25	.74	1.09	1.44	1.78	2.12	2.45	2.77	2.92	3.08	3.38	3.68	3.97	4.26	4.54	4.81	5.07
26	[illegible]	1.18	1.56	1.93	[illegible]	2.65	[illegible]	3.17	3.34	3.68	4.00	4.32	4.63	4.94	5.23	5.52
27	.66	1.28	1.69	2.09	2.48	2.87	3.25	3.43	3.62	3.98	4.33	4.68	5.02	5.35	5.68	5.99
28	.93	1.38	1.82	2.25	2.66	3.09	3.50	3.76	3.90	4.29	4.68	5.06	5.42	5.78	6.14	6.48
29	.99	1.48	1.95	2.42	2.88	3.33	3.77	3.98	4.20	4.62	5.04	5.44	5.84	6.23	6.62	6.99
30	[illegible]	1.59	2.09	2.59	3.08	3.57	4.04	4.27	4.50	4.96	5.41	5.85	6.28	6.70	7.12	7.52
31	1.14	1.69	2.24	2.77	3.30	3.82	4.32	4.57	4.82	5.31	5.79	6.27	6.73	7.18	7.63	8.07
32	1.21	1.80	2.39	2.96	3.52	4.07	4.62	4.89	5.15	5.68	6.19	6.70	7.20	7.68	8.16	8.63
33	1.29	1.92	2.54	3.15	3.75	4.34	4.92	5.21	5.49	6.05	[illegible]	7.15	7.68	8.20	8.72	9.22
34	1.37	[illegible]	2.70	3.35	3.90	4.61	5.23	5.54	5.84	6.44	7.03	7.61	8.18	8.74	9.29	9.83
35	1.45	2.16	2.86	3.55	4.23	4.90	5.55	5.88	6.20	6.84	7.47	8.08	8.69	9.29	9.87	10.45
36	1.54	2.29	3.03	3.76	4.48	5.19	5.89	6.23	6.57	7.25	7.92	8.57	9.22	9.85	10.48	11.09
37	1.62	2.42	3.20	3.98	4.74	5.49	6.23	6.59	6.96	7.67	8.36	9.08	9.76	10.44	11.10	11.76
38	1.71	2.55	3.38	4.20	[illegible]	5.80	6.58	6.97	7.35	8.11	8.86	9.65	10.32	11.04	11.75	12.44
39	1.81	2.69	3.56	4.42	5.27	6.11	6.94	7.35	7.75	8.56	9.35	10.13	10.90	11.66	12.41	13.14
40	1.90	2.83	3.75	4.56	[illegible]	6.44	7.31	7.74	8.17	9.02	9.85	10.68	11.49	12.20	13.08	13.86
41	[illegible]	2.98	3.94	[illegible]	5.84	6.77	7.69	8.14	8.59	9.49	10.37	11.24	12.10	12.95	13.78	14.60
42	2.10	3.12	4.14	5.14	6.13	7.11	8.08	8.56	9.03	9.97	10.90	11.82	12.72	13.61	14.49	15.36
43	[illegible]	3.28	4.34	[illegible]	6.44	7.46	8.48	8.98	9.48	10.47	11.44	12.41	13.36	14.30	15.23	16.14
44	[illegible]	[illegible]	4.55	5.65	6.74	7.82	8.89	9.41	9.94	10.98	[illegible]	13.01	14.01	15.00	15.98	16.94
45	2.41	3.59	4.76	5.92	7.06	8.19	9.30	9.86	10.41	11.50	12.57	13.63	14.68	15.72	16.74	17.76
46	2.52	[illegible]	4.93	6.19	7.38	8.56	9.73	10.31	10.89	12.03	13.16	14.27	15.37	16.46	17.53	18.59
47	2.63	3.92	5.20	6.46	7.71	8.95	10.17	10.78	11.38	12.57	13.75	14.92	16.07	17.21	18.33	19.45
48	2.74	4.09	5.42	6.74	[illegible]	9.34	10.62	11.25	11.88	13.13	14.36	15.58	16.79	17.98	19.16	20.32
49	2.86	[illegible]	5.66	7.07	8.38	9.74	11.07	11.73	12.39	13.70	14.98	16.26	17.52	18.77	20.00	21.22
50	2.98	4.44	5.89	7.33	[illegible]	10.15	11.54	12.23	12.92	14.28	15.62	16.95	18.27	19.57	20.86	22.13
51	3.10	[illegible]	6.13	7.53	9.10	10.57	12.02	12.73	13.45	14.87	16.27	17.66	19.03	20.39	21.73	23.06
52	3.22	4.81	6.38	7.93	9.47	10.99	12.50	13.25	13.99	15.47	16.93	18.38	19.81	21.23	22.63	24.01
53	[illegible]	4.99	6.63	8.24	9.84	11.43	13.00	13.78	14.55	16.09	17.61	19.12	20.61	22.08	23.54	24.98
54	3.47	5.19	6.88	8.56	10.22	11.87	13.50	14.31	15.12	16.72	18.30	19.87	21.42	22.95	24.47	25.97
55	[illegible]	5.38	7.14	8.89	10.61	12.32	14.02	14.86	15.69	17.36	[illegible]	20.63	22.24	23.84	25.42	26.98
56	3.74	5.58	7.41	9.22	11.01	12.78	14.54	15.41	16.28	18.01	19.72	21.41	23.08	24.74	26.39	28.01
57	3.87	5.78	7.68	9.55	11.41	13.25	15.07	15.98	16.88	18.67	20.45	22.20	23.94	25.66	27.37	29.06
58	4.01	5.99	7.95	9.89	11.82	13.73	15.62	16.56	17.49	19.35	21.19	23.01	24.81	26.60	28.37	30.13
59	[illegible]	[illegible]	8.23	10.24	12.24	14.21	16.17	17.14	18.11	20.04	21.94	23.83	25.70	27.56	29.39	31.21
60	4.29	6.41	8.51	10.59	12.66	14.71	16.77	17.74	18.74	20.74	22.71	24.67	26.61	28.53	30.43	32.32

* 1KIP=1000 POUNDS

Table 28.--Log weights for scaling lengths of 34 to 60 feet: density index = 54 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=54

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.15	[illegible]	.15	.15	.14	.14	.14	.13	.13	.12	.12	.11	.11	.10	.09	.09
7	.24	.24	.24	.24	.24	.24	.23	.23	.23	.22	.22	.21	.21	.20	.19	.18
8	.35	.35	.35	.36	.36	.36	.36	.36	.35	.35	.35	.34	.34	.33	.32	.31
9	.43	.48	.49	.49	.50	.50	.51	.51	.51	.51	.51	.50	.50	.50	.49	.48
10	.63	.53	.64	.66	.67	.68	.68	.68	.69	.69	.70	.70	.70	.70	.69	.69
11	.80	.81	.82	.84	.86	.87	.88	.89	.90	.91	.92	.92	.93	.93	.93	.93
12	.99	1.00	1.02	1.05	1.07	1.10	1.11	1.12	1.14	1.15	1.17	1.18	1.19	1.20	1.20	1.20
13	[illegible]	1.22	1.24	1.28	1.31	1.34	1.36	1.37	1.40	1.43	1.45	1.47	1.49	1.50	1.51	1.52
14	[illegible]	[illegible]	1.48	1.53	1.58	1.62	1.64	1.66	1.69	1.73	1.76	1.78	1.81	1.83	1.85	1.87
15	[illegible]	1.72	1.75	1.81	1.86	1.92	1.94	1.97	2.01	2.06	2.10	2.13	2.17	2.20	2.23	2.25
16	1.96	1.99	2.03	2.11	2.17	2.24	2.27	2.30	2.36	2.42	2.47	2.51	2.56	2.60	2.64	2.67
17	2.25	2.29	2.34	2.43	2.51	2.59	2.63	2.66	2.74	2.80	2.87	2.93	2.98	3.04	3.08	3.13
18	2.56	2.62	2.67	2.77	2.87	2.96	3.01	3.05	3.14	3.22	3.30	3.37	3.44	3.50	3.57	3.62
19	[illegible]	[illegible]	[illegible]	3.14	[illegible]	3.36	3.42	3.47	3.57	3.67	3.76	3.85	3.93	4.01	4.08	4.15
20	[illegible]	[illegible]	[illegible]	3.53	[illegible]	3.79	3.85	3.91	4.03	4.14	4.25	4.35	4.45	4.54	4.63	4.72
21	[illegible]	3.71	3.79	3.94	[illegible]	4.24	4.31	4.38	4.51	4.64	4.77	4.89	5.00	5.11	5.22	5.32
22	4.02	4.11	4.20	4.38	4.55	4.71	4.79	4.87	5.03	5.18	5.32	5.46	5.59	5.72	5.84	5.96
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.21	[illegible]	5.39	5.57	5.74	[illegible]	6.06	6.21	6.35	6.50	6.63
24	4.87	4.99	5.10	5.32	5.53	5.74	5.84	5.94	6.14	6.33	6.51	6.69	6.86	7.03	7.19	7.34
25	5.33	5.45	5.58	5.82	6.06	6.29	6.40	6.52	6.73	6.95	7.15	7.35	7.54	7.73	7.91	8.09
26	[illegible]	[illegible]	[illegible]	[illegible]	6.61	6.87	6.99	7.12	7.36	7.59	7.82	8.04	8.26	8.47	8.67	8.87
27	[illegible]	[illegible]	[illegible]	[illegible]	7.15	7.47	7.61	7.74	8.01	8.27	8.52	8.77	9.01	9.24	9.47	9.69
28	6.82	6.99	7.15	7.47	7.79	8.10	8.25	8.40	8.69	8.97	9.25	9.52	9.79	10.05	10.30	10.54
29	[illegible]	[illegible]	[illegible]	[illegible]	8.41	[illegible]	8.91	[illegible]	9.40	9.71	10.01	10.31	10.60	10.89	11.16	11.43
30	7.92	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.79	10.13	10.47	10.81	11.13	11.45	11.76	12.06	12.36
31	8.50	8.71	8.92	9.33	9.73	10.13	10.32	10.51	10.89	11.26	11.63	11.98	12.33	12.67	13.00	13.32
32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.07	11.27	11.68	12.08	12.49	12.86	13.24	13.61	13.97	14.32
33	[illegible]	[illegible]	[illegible]	[illegible]	11.15	11.61	11.84	[illegible]	12.50	12.93	13.36	13.77	14.18	14.56	14.97	15.35
34	[illegible]	[illegible]	[illegible]	11.39	[illegible]	[illegible]	12.67	12.87	[illegible]	13.81	14.27	14.72	15.16	15.59	16.01	16.42
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.19	13.45	13.71	[illegible]	14.72	15.21	15.69	16.17	16.63	17.08	17.53
36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.12	15.66	16.18	16.70	17.21	17.70	18.19	18.67
37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.87	15.17	15.47	[illegible]	16.62	17.18	17.74	18.28	18.81	19.34	19.85
38	13.12	13.46	13.80	14.46	15.11	15.75	16.07	16.38	17.01	17.62	18.22	18.81	19.39	19.96	20.52	21.07
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.99	18.64	19.28	19.91	20.52	21.13	21.73	22.32
40	[illegible]	[illegible]	[illegible]	[illegible]	16.87	[illegible]	17.95	[illegible]	[illegible]	19.69	20.37	21.04	21.69	22.34	22.98	23.60
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.92	[illegible]	[illegible]	20.77	21.49	[illegible]	22.90	23.59	24.26	24.93
42	16.22	16.64	17.06	17.89	18.71	19.52	19.92	20.32	21.11	21.88	22.64	23.39	24.13	24.86	25.58	26.29
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.12	[illegible]	24.62	[illegible]	26.17	26.93	27.68
44	17.89	18.36	18.82	19.75	20.66	21.56	22.01	22.45	23.32	24.19	25.04	25.88	26.70	27.52	28.32	29.11
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.47	25.38	26.28	27.16	28.04	28.90	29.74	30.58
46	19.64	20.16	20.67	21.69	22.70	23.70	24.19	24.68	25.65	26.61	27.55	28.48	29.40	30.31	31.20	32.08
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.85	27.86	28.85	29.83	[illegible]	31.75	32.69	33.62
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.48	[illegible]	[illegible]	29.14	30.19	31.21	32.23	33.23	34.22	35.20
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29.35	30.45	[illegible]	[illegible]	33.69	34.75	35.78	36.81
50	23.39	24.01	24.63	25.86	27.08	28.28	28.87	29.46	30.64	31.79	32.94	34.07	35.19	36.29	37.38	38.46
51	[illegible]	[illegible]	25.67	26.96	28.23	29.48	30.11	30.72	31.95	33.16	34.36	35.55	36.72	37.87	39.01	40.14
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	37.05	[illegible]	39.49	40.68	41.86
53	26.41	27.12	27.83	29.22	30.61	31.98	32.65	33.33	34.67	35.99	37.30	38.59	39.87	41.13	42.38	43.62
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	37.44	38.81	40.16	41.49	42.81	44.12	45.41
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41.76	43.15	44.53	45.89	47.24
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	36.67	[illegible]	[illegible]	40.44	[illegible]	43.39	44.84	46.28	47.70	49.10
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41.99	[illegible]	[illegible]	46.57	48.06	[illegible]	51.00
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	39.47	[illegible]	41.94	[illegible]	45.16	46.75	48.32	49.88	[illegible]	52.94
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41.77	43.47	45.16	[illegible]	48.47	50.11	51.77	[illegible]	54.91
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	45.04	[illegible]	[illegible]	[illegible]	[illegible]	53.61	55.27	56.92

* 1KIP=1,000 POUNDS

Table 29.--Log weights for scaling lengths of 4 to 32 feet: density index = 56 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=56																
LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)															
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.04	.06	.08	.09	.10	.11	.12	.13	.13	.14	.14	.15	.15	.15	.16	.16
7	.06	.08	.11	.13	.15	.16	.18	.19	.19	.20	.21	.22	.23	.24	.24	.25
8	.07	.11	.14	.17	.20	.22	.24	.25	.26	.28	.30	.31	.33	.34	.35	.35
9	.10	.14	.18	.22	.25	.29	.32	.33	.35	.37	.40	.42	.44	.45	.47	.48
10	.12	.17	.22	.27	.32	.36	.40	.42	.44	.47	.51	.54	.56	.59	.61	.63
11	.14	.21	.27	.33	.39	.45	.50	.52	.54	.59	.63	.67	.71	.74	.77	.80
12	.17	.25	.33	.40	.47	.54	.60	.63	.66	.72	.77	.82	.87	.91	.95	.99
13	.20	.30	.39	.48	.56	.64	.72	.75	.79	.86	.92	.98	1.04	1.10	1.15	1.20
14	.24	.35	.45	.56	.66	.75	.84	.88	.93	1.01	1.09	1.16	1.23	1.30	1.37	1.43
15	.27	.40	.52	.64	.76	.87	.97	1.03	1.08	1.17	1.27	1.36	1.44	1.52	1.60	1.68
16	.31	.46	.60	.74	.87	1.00	1.12	1.18	1.24	1.35	1.46	1.57	1.67	1.76	1.86	1.94
17	.35	.52	.68	.83	.99	1.13	1.27	1.34	1.41	1.54	1.67	1.79	1.91	2.02	2.13	2.23
18	.39	.58	.75	.94	1.11	1.28	1.44	1.52	1.59	1.74	1.89	2.03	2.16	2.30	2.42	2.54
19	.44	.65	.85	1.05	1.24	1.43	1.61	1.70	1.79	1.96	2.12	2.28	2.44	2.59	2.73	2.87
20	.49	.72	.95	1.17	1.38	1.59	1.80	1.90	1.99	2.19	2.37	2.55	2.73	2.90	3.06	3.22
21	.54	.80	1.05	1.29	1.53	1.76	1.99	2.10	2.21	2.43	2.63	2.84	3.03	3.22	3.41	3.59
22	.59	.87	1.15	1.42	1.69	1.94	2.20	2.32	2.44	2.68	2.91	3.14	3.35	3.57	3.77	3.97
23	.65	.96	1.26	1.56	1.85	2.13	2.41	2.55	2.68	2.94	3.20	3.45	3.69	3.93	4.16	4.38
24	.70	1.04	1.38	1.70	2.02	2.33	2.63	2.78	2.93	3.22	3.50	3.78	4.05	4.31	4.56	4.81
25	.76	1.13	1.50	1.85	2.20	2.54	2.87	3.03	3.19	3.51	3.82	4.12	4.42	4.70	4.99	5.26
26	.83	1.23	1.62	2.01	2.38	2.75	3.11	3.29	3.47	3.81	4.15	4.48	4.80	5.12	5.43	5.73
27	.89	1.33	1.76	2.17	2.58	2.98	3.37	3.56	3.75	4.13	4.49	4.85	5.21	5.55	5.89	6.22
28	.96	1.43	1.88	2.33	2.78	3.21	3.63	3.84	4.05	4.45	4.85	5.24	5.62	6.00	6.37	6.72
29	1.03	1.53	2.02	2.51	2.98	3.45	3.91	4.13	4.35	4.79	5.22	5.65	6.06	6.47	6.86	7.25
30	1.10	1.64	2.17	2.69	3.20	3.70	4.19	4.43	4.67	5.15	5.61	6.06	6.51	6.95	7.38	7.80
31	1.18	1.75	2.32	2.87	3.42	3.96	4.48	4.74	5.00	5.51	6.01	6.50	6.98	7.45	7.91	8.37
32	1.26	1.87	2.47	3.07	3.65	4.22	4.79	5.07	5.34	5.89	6.42	6.95	7.46	7.97	8.47	8.95
33	1.34	1.99	2.63	3.27	3.89	4.50	5.10	5.40	5.69	6.28	6.85	7.41	7.96	8.51	9.04	9.56
34	1.42	2.11	2.80	3.47	4.13	4.78	5.43	5.74	6.06	6.68	7.29	7.89	8.48	9.06	9.63	10.19
35	1.51	2.24	2.97	3.68	4.39	5.08	5.76	6.10	6.43	7.09	7.74	8.38	9.01	9.63	10.24	10.84
36	1.59	2.37	3.14	3.90	4.64	5.38	6.10	6.46	6.82	7.52	8.21	8.89	9.56	10.22	10.87	11.51
37	1.68	2.51	3.32	4.12	4.91	5.69	6.46	6.84	7.21	7.96	8.69	9.41	10.13	10.83	11.51	12.19
38	1.78	2.65	3.51	4.35	5.19	6.01	6.82	7.22	7.62	8.41	9.19	9.95	10.71	11.45	12.18	12.90
39	1.87	2.79	3.70	4.59	5.47	6.34	7.20	7.62	8.04	8.87	9.70	10.51	11.30	12.09	12.87	13.63
40	1.97	2.94	3.89	4.83	5.76	6.68	7.58	8.03	8.47	9.35	10.22	11.07	11.92	12.75	13.57	14.38
41	2.07	3.09	4.09	5.08	6.06	7.02	7.97	8.44	8.91	9.84	10.75	11.66	12.55	13.42	14.29	15.14
42	2.17	3.24	4.29	5.33	6.36	7.38	8.38	8.87	9.37	10.34	11.30	12.26	13.19	14.12	15.03	15.93
43	2.28	3.40	4.50	5.60	6.67	7.74	8.79	9.31	9.83	10.86	11.87	12.87	13.86	14.83	15.79	16.74
44	2.39	3.56	4.72	5.86	6.99	8.11	9.22	9.76	10.31	11.38	12.45	13.50	14.53	15.56	16.57	17.57
45	2.50	3.72	4.94	6.14	7.32	8.49	9.65	10.22	10.79	11.92	13.04	14.14	15.23	16.30	17.36	18.41
46	2.61	3.89	5.16	6.42	7.66	8.88	10.09	10.69	11.29	12.47	13.64	14.80	15.94	17.07	18.18	19.28
47	2.73	4.07	5.39	6.70	8.00	9.28	10.55	11.17	11.80	13.04	14.26	15.47	16.67	17.85	19.01	20.17
48	2.84	4.24	5.63	6.99	8.35	9.69	11.01	11.67	12.32	13.61	14.89	16.16	17.41	18.65	19.87	21.07
49	2.96	4.42	5.86	7.29	8.71	10.10	11.48	12.17	12.85	14.20	15.54	16.86	18.17	19.46	20.74	22.00
50	3.09	4.61	6.11	7.60	9.07	10.53	11.97	12.69	13.39	14.80	16.20	17.58	18.94	20.29	21.63	22.95
51	3.21	4.79	6.36	7.91	9.44	10.96	12.46	13.21	13.95	15.42	16.87	18.31	19.74	21.14	22.54	23.92
52	3.34	4.98	6.61	8.23	9.82	11.40	12.97	13.74	14.51	16.04	17.56	19.06	20.54	22.01	23.47	24.90
53	3.47	5.18	6.87	8.55	10.21	11.85	13.48	14.29	15.09	16.68	18.26	19.82	21.37	22.90	24.41	25.91
54	3.60	5.38	7.14	8.88	10.60	12.31	14.00	14.84	15.68	17.33	18.98	20.60	22.21	23.80	25.38	26.94
55	3.74	5.58	7.41	9.21	11.01	12.78	14.54	15.41	16.28	18.00	19.70	21.39	23.07	24.72	26.36	27.98
56	3.88	5.79	7.68	9.56	11.41	13.26	15.08	15.99	16.89	18.67	20.45	22.20	23.94	25.66	27.36	29.05
57	4.02	[illegible]	7.96	9.91	11.83	13.74	15.63	16.57	17.51	19.36	21.20	23.02	24.83	26.61	28.39	30.14
58	4.16	6.21	8.24	10.26	12.26	14.24	16.20	17.17	18.14	20.06	21.97	23.86	25.73	27.59	29.42	31.24
59	4.31	6.43	8.53	10.62	12.69	14.74	16.77	17.78	18.79	20.78	22.76	24.71	26.65	28.58	30.48	32.37
60	4.45	[illegible]	[illegible]	10.99	13.13	15.25	17.35	18.40	19.44	21.51	23.55	25.58	27.59	29.59	31.56	33.52

* 1KIP=1,000 POUNDS

Table 30.--Log weights for scaling lengths of 34 to 60 feet: density index = 56 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=56

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	[illegible]	[illegible]	[illegible]	.15	.15	.14	.14	.14	.13	.13	.12	.12	.11	.10	.10	.09
7	[illegible]	[illegible]	.25	.25	.25	.24	.24	.24	.24	.23	.23	.22	.21	.21	.20	.19
8	[illegible]	[illegible]	.37	.37	.37	.37	.37	.37	.37	.36	.36	.36	.35	.34	.33	.33
9	[illegible]	[illegible]	[illegible]	.51	.52	.52	.52	.53	.53	.53	.53	.52	.52	.51	.51	.50
10	[illegible]	[illegible]	.67	.68	.69	.70	.71	.71	.72	.72	.72	.72	.72	.72	.72	.71
11	.83	.84	[illegible]	.87	.89	.91	.91	.92	.93	.94	.95	.96	.96	.96	.96	.96
12	[illegible]	[illegible]	[illegible]	1.09	1.11	1.14	1.15	1.16	1.18	1.20	1.21	1.22	1.23	1.24	1.25	1.25
13	1.24	1.27	1.29	[illegible]	[illegible]	1.39	1.41	1.43	1.45	1.48	1.50	1.52	1.54	1.55	1.56	1.57
14	[illegible]	1.51	[illegible]	[illegible]	[illegible]	1.68	1.70	1.72	1.76	1.79	1.82	1.85	1.88	1.90	1.92	1.94
15	[illegible]	[illegible]	[illegible]	1.87	1.93	1.99	2.01	2.04	2.09	2.13	2.17	2.21	2.25	2.28	2.31	2.33
16	[illegible]	[illegible]	[illegible]	2.18	2.26	2.32	2.36	2.39	2.45	2.51	2.56	2.61	2.65	2.70	2.74	2.77
17	[illegible]	[illegible]	[illegible]	2.52	2.60	2.69	2.72	2.76	2.84	2.91	2.97	3.04	3.09	3.15	3.20	3.25
18	2.66	2.71	2.77	2.87	2.98	3.07	3.12	3.17	3.26	3.34	3.42	3.50	3.57	3.63	3.70	3.76
19	[illegible]	[illegible]	3.17	3.26	3.37	3.49	3.54	3.65	3.70	3.80	3.90	3.99	4.07	4.16	4.23	4.31
20	3.27	[illegible]	3.52	3.66	3.81	3.93	[illegible]	[illegible]	4.16	4.29	4.41	4.51	4.61	4.71	4.81	4.89
21	3.76	[illegible]	3.93	4.09	4.24	4.40	4.47	4.54	4.68	4.82	4.94	5.07	5.19	5.30	5.41	5.52
22	4.17	4.26	4.30	4.54	4.72	4.89	4.97	5.05	5.21	5.37	5.52	5.66	5.80	5.93	6.06	6.18
23	[illegible]	4.71	4.81	[illegible]	5.21	5.41	5.50	[illegible]	5.77	5.95	6.12	6.28	6.44	6.59	6.74	6.88
24	[illegible]	5.17	5.23	[illegible]	5.74	5.95	6.06	6.16	6.36	6.56	6.75	6.94	7.11	7.29	7.45	7.61
25	5.53	5.66	5.79	6.04	6.28	6.52	6.64	6.76	6.98	7.20	7.42	7.62	7.82	8.02	8.20	8.39
26	6.02	6.16	6.31	6.59	6.86	7.12	7.25	7.38	7.63	7.87	8.11	8.34	8.57	8.78	8.99	9.20
27	6.54	[illegible]	[illegible]	7.16	7.45	7.75	7.89	[illegible]	8.31	8.58	8.84	9.10	9.34	9.58	9.82	10.04
28	[illegible]	[illegible]	7.42	7.75	[illegible]	8.40	8.55	8.71	9.01	9.31	9.60	9.88	10.15	10.42	10.66	10.93
29	7.63	7.83	[illegible]	[illegible]	[illegible]	9.07	9.24	9.41	9.74	10.07	10.39	10.69	11.00	11.29	11.59	11.85
30	8.21	[illegible]	[illegible]	[illegible]	[illegible]	9.77	9.96	10.14	10.51	10.86	11.21	11.54	11.87	12.19	12.51	12.81
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.71	[illegible]	11.30	11.60	12.06	12.42	12.78	13.13	13.48	13.81
32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.26	11.48	11.69	12.12	12.53	12.94	13.34	13.73	14.11	14.48	14.85
33	[illegible]	[illegible]	[illegible]	[illegible]	11.56	12.04	12.27	12.51	12.96	13.41	13.85	14.28	14.71	15.12	15.52	15.92
34	10.74	[illegible]	11.28	11.81	12.33	12.85	13.10	13.35	13.84	14.32	14.80	15.26	15.72	16.17	16.60	17.03
35	11.43	11.72	[illegible]	12.57	13.17	13.64	13.95	14.22	14.75	15.27	15.77	16.27	16.76	17.25	17.72	18.18
36	12.13	12.44	12.75	[illegible]	13.96	14.54	14.83	15.12	15.68	16.24	16.78	17.32	17.84	18.36	18.87	19.36
37	12.86	13.19	13.52	14.16	14.86	15.42	15.73	16.04	16.64	17.24	17.82	18.39	18.96	19.51	20.05	20.59
38	13.61	13.96	14.31	15.00	15.67	16.34	16.67	16.99	17.64	18.27	18.89	19.50	20.10	20.69	21.28	21.85
39	14.34	14.71	15.12	15.45	16.57	17.28	17.62	17.97	18.66	19.33	19.99	20.64	21.28	21.91	22.53	23.14
40	15.17	15.57	[illegible]	16.77	17.49	18.24	18.61	18.98	19.73	20.42	21.12	21.82	22.51	23.17	23.83	24.48
41	15.98	[illegible]	16.81	17.63	18.44	19.23	19.62	20.01	20.78	21.54	22.29	23.02	23.75	24.46	25.16	25.85
42	[illegible]	17.06	17.53	18.36	19.41	20.25	20.66	[illegible]	21.90	22.69	23.48	24.26	25.03	25.78	26.53	27.26
43	17.67	[illegible]	[illegible]	[illegible]	[illegible]	21.29	21.73	22.16	23.02	23.87	24.71	25.53	26.34	27.14	27.93	28.71
44	[illegible]	[illegible]	[illegible]	[illegible]	21.43	22.36	22.82	23.28	24.19	25.08	25.96	26.83	27.69	28.54	29.37	30.19
45	[illegible]	[illegible]	20.47	21.46	22.47	23.45	23.94	24.42	25.38	26.32	27.25	28.17	29.07	29.97	30.85	31.71
46	[illegible]	[illegible]	21.44	[illegible]	23.56	24.58	25.09	25.59	26.61	27.59	28.57	29.54	30.49	31.43	32.36	33.27
47	21.11	[illegible]	22.47	23.64	24.64	25.72	26.26	26.79	27.85	28.89	29.92	30.94	31.94	32.93	33.90	34.87
48	22.27	22.91	[illegible]	24.61	25.76	[illegible]	27.46	28.02	29.13	30.22	31.30	32.37	33.42	34.46	35.49	36.50
49	[illegible]	[illegible]	[illegible]	[illegible]	26.91	[illegible]	28.69	29.27	30.43	31.58	32.72	33.84	34.94	36.03	37.11	38.17
50	24.25	24.90	25.54	26.82	28.08	29.32	29.94	30.55	31.77	32.97	34.16	35.33	36.49	37.64	38.77	39.88
51	25.28	25.95	26.62	27.96	29.27	30.58	31.22	31.86	33.14	34.39	35.63	36.86	38.08	39.27	40.46	41.63
52	[illegible]	[illegible]	27.73	29.12	30.45	[illegible]	[illegible]	[illegible]	34.57	35.94	37.14	38.47	39.69	40.95	42.19	43.41
53	[illegible]	[illegible]	[illegible]	[illegible]	31.74	33.16	[illegible]	[illegible]	[illegible]	37.32	38.68	[illegible]	41.35	42.66	[illegible]	45.23
54	28.48	29.24	30.01	31.52	33.01	34.49	35.22	35.95	37.40	38.83	40.25	41.65	43.03	44.40	45.75	47.09
55	[illegible]	[illegible]	[illegible]	[illegible]	34.71	[illegible]	[illegible]	[illegible]	38.88	[illegible]	[illegible]	[illegible]	44.75	46.18	47.50	48.99
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41.94	43.48	[illegible]	[illegible]	47.99	[illegible]	[illegible]
57	31.87	32.73	33.59	35.29	36.97	38.64	39.47	40.29	41.92	43.54	45.14	46.72	48.29	49.84	51.37	52.89
58	33.04	33.94	34.83	36.59	38.34	40.08	40.94	41.79	43.45	45.17	[illegible]	48.49	50.11	51.72	[illegible]	[illegible]
59	34.24	35.17	36.09	37.92	39.74	41.54	42.43	[illegible]	45.18	[illegible]	[illegible]	[illegible]	51.96	53.64	[illegible]	56.95
60	35.45	36.42	37.37	39.28	41.16	43.03	43.95	44.87	46.71	[illegible]	[illegible]	[illegible]	[illegible]	55.59	[illegible]	[illegible]

* 1KIP=1,000 POUNDS

Table 31.--Log weights for scaling lengths of 4 to 32 feet: density index = 58 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=58															
	SCALING LENGTH (FEET)															
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.04	.06	.08	.09	.11	.12	.13	.13	.14	.14	.15	.15	.16	.16	.16	.16
7	.06	.08	.11	.13	.15	.17	.18	.19	.20	.21	.22	.23	.24	.25	.25	.25
8	.08	.11	.14	.18	.20	.23	.25	.26	.27	.29	.31	.32	.34	.35	.36	.37
9	.10	.14	.19	.23	.26	.30	.33	.34	.36	.39	.41	.43	.45	.47	.49	.50
10	.12	.18	.23	.28	.33	.37	.42	.44	.46	.49	.53	.56	.58	.61	.63	.65
11	.15	.22	.28	.35	.41	.46	.51	.54	.56	.61	.65	.69	.73	.77	.80	.83
12	.18	.26	.34	.42	.49	.56	.62	.65	.68	.74	.80	.85	.90	.94	.99	1.02
13	.21	.31	.40	.49	.58	.66	.74	.78	.82	.89	.96	1.02	1.08	1.14	1.19	1.24
14	.24	.36	.47	.58	.68	.78	.87	.92	.96	1.05	1.13	1.20	1.28	1.35	1.42	1.48
15	.28	.41	.54	.67	.79	.90	1.01	1.06	1.12	1.22	1.31	1.41	1.49	1.58	1.66	1.74
16	.32	.47	.62	.76	.90	1.03	1.16	1.22	1.28	1.40	1.51	1.62	1.73	1.83	1.92	2.01
17	.36	.54	.70	.86	1.02	1.17	1.32	1.39	1.46	1.60	1.73	1.86	1.98	2.09	2.20	2.31
18	.41	.60	.79	.97	1.15	1.32	1.49	1.57	1.65	1.81	1.96	2.10	2.24	2.38	2.51	2.63
19	.45	.67	.88	1.09	1.29	1.48	1.67	1.76	1.85	2.03	2.20	2.37	2.52	2.68	2.83	2.97
20	.50	.73	.98	1.21	1.43	1.65	1.86	1.96	2.07	2.26	2.46	2.64	2.82	3.00	3.17	3.33
21	.56	.82	1.08	1.34	1.59	1.83	2.06	2.13	2.29	2.51	2.73	2.94	3.14	3.34	3.53	3.71
22	.61	.91	1.19	1.47	1.75	2.01	2.27	2.40	2.53	2.77	3.01	3.25	3.47	3.69	3.91	4.12
23	.67	.99	1.31	1.61	1.92	2.21	2.50	2.64	2.78	3.05	3.31	3.57	3.82	4.07	4.31	4.54
24	.73	1.08	1.43	1.76	2.09	2.41	2.73	2.88	3.04	3.34	3.63	3.91	4.19	4.46	4.73	4.98
25	.79	1.17	1.55	1.92	2.28	2.63	2.97	3.14	3.31	3.64	3.96	4.27	4.57	4.87	5.16	5.45
26	.86	1.27	1.68	2.08	2.47	2.85	3.22	3.41	3.59	3.95	4.30	4.64	4.97	5.30	5.62	5.93
27	.92	1.37	1.81	2.24	2.67	3.08	3.49	3.69	3.88	4.27	4.65	5.03	5.39	5.75	6.10	6.44
28	.99	1.48	1.95	2.42	2.87	3.32	3.76	3.98	4.19	4.61	5.03	5.43	5.83	6.21	6.59	6.96
29	1.07	1.59	2.10	2.60	3.09	3.57	4.04	4.28	4.51	4.96	5.41	5.85	6.28	6.70	7.11	7.51
30	1.14	1.70	2.25	2.78	3.31	3.83	4.34	4.59	4.84	5.33	5.81	6.28	6.74	7.20	7.64	8.08
31	1.22	1.82	2.40	2.98	3.54	4.10	4.64	4.91	5.18	5.71	6.22	6.73	7.23	7.72	8.20	8.67
32	[illegible]	1.94	2.56	3.18	3.78	4.37	4.96	5.25	5.53	6.10	6.65	7.19	7.73	8.25	8.77	9.27
33	1.39	2.06	2.73	3.38	4.03	4.66	5.28	5.59	5.90	6.50	7.09	7.68	8.25	8.81	9.36	9.90
34	1.47	2.19	2.90	3.59	4.28	4.96	5.62	5.95	6.27	6.92	7.55	8.17	8.78	9.38	9.97	10.55
35	1.56	2.32	3.07	3.81	4.54	5.26	5.97	6.31	6.66	7.35	8.02	8.68	9.33	9.97	10.61	11.23
36	1.65	[illegible]	3.25	[illegible]	4.81	5.57	6.32	6.69	7.06	7.79	8.51	9.21	9.91	10.58	11.26	11.92
37	1.74	2.60	3.44	4.27	5.09	5.89	6.69	7.08	7.47	8.24	9.00	9.75	10.49	11.21	11.93	12.63
38	1.84	2.74	3.63	4.51	5.37	6.23	7.07	7.48	7.90	8.71	9.51	10.31	11.09	11.86	12.62	13.36
39	1.94	2.89	3.83	4.76	5.67	6.57	7.45	7.89	8.33	9.19	10.04	10.88	11.71	12.52	13.32	14.12
40	[illegible]	[illegible]	[illegible]	[illegible]	5.97	6.91	7.85	8.31	8.77	9.69	10.58	11.47	12.34	13.20	14.05	14.99
41	2.14	3.20	4.24	5.26	6.27	7.27	8.26	8.75	9.23	10.19	11.14	12.07	13.00	13.90	14.80	15.68
42	2.25	3.36	4.45	5.52	6.59	7.64	8.68	9.19	9.70	10.71	11.71	12.69	13.66	14.62	15.57	16.50
43	2.36	3.52	4.66	5.80	6.91	8.02	9.11	9.65	10.18	11.24	12.29	13.33	14.35	15.36	16.35	17.34
44	2.47	3.69	4.89	6.07	7.24	8.40	9.54	10.11	10.67	11.79	12.89	13.98	15.05	16.11	17.16	18.19
45	2.59	3.86	5.11	6.36	7.58	8.80	9.99	10.59	11.18	12.35	13.50	14.64	15.77	16.89	17.98	19.07
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.45	[illegible]	11.69	12.92	14.13	15.33	16.51	17.68	18.83	19.97
47	2.82	4.21	5.58	6.94	8.28	9.61	10.92	11.57	12.22	13.50	14.77	16.02	17.26	18.48	19.69	20.89
48	2.94	4.39	5.83	7.24	8.65	10.03	11.40	12.08	12.76	14.10	15.43	16.74	18.03	19.31	20.58	21.83
49	3.07	4.58	6.07	7.55	9.02	10.46	11.89	12.60	13.31	14.71	16.09	17.46	18.82	20.16	21.48	22.79
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.40	13.14	13.87	[illegible]	16.78	18.21	19.62	21.02	[illegible]	23.77
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.35	12.91	13.68	14.45	15.97	17.48	18.97	20.44	[illegible]	23.34	24.77
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.81	13.43	14.27	[illegible]	[illegible]	[illegible]	19.74	21.28	22.80	[illegible]	25.79
53	3.59	5.36	7.12	8.85	10.57	12.28	13.96	14.80	15.63	17.28	18.91	20.53	22.13	23.72	25.28	26.83
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.27	16.24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	3.87	5.78	7.67	9.54	11.40	13.24	15.06	15.96	16.86	18.64	20.41	22.16	23.89	25.60	27.30	28.98
56	4.01	5.99	7.95	9.90	11.82	13.73	15.62	16.56	17.49	19.34	21.18	22.99	24.79	26.58	28.34	30.09
57	4.16	6.21	8.24	10.26	12.25	14.23	16.19	17.16	18.13	20.06	21.96	23.85	25.71	27.57	29.40	31.21
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	32.36
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.37	[illegible]	19.45	[illegible]	[illegible]	[illegible]	27.61	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.71

* 1 KIP = 1 [illegible]

Table 32.--Log weights for scaling lengths of 34 to 60 feet: density index = 58 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

[illegible] (KIPS*) FOR DENSITY INDEX=58

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.16	.15	.16	.16	.15	.15	.15	.14	.14	.13	.13	.12	.11	.11	.10	.09
7	.26	.26	.26	.26	.26	.25	.25	.25	.25	.24	.23	.23	.22	.21	.20	.19
8	.37	[illegible]	.38	.38	.38	.38	.38	.38	.38	.38	.37	.37	.36	.35	.35	.34
9	.51	.52	.52	.53	.54	.54	.54	.54	.55	.55	.55	.54	.54	.53	.53	.52
10	.67	.68	.69	.70	.72	.73	.73	.74	.74	.75	.75	.75	.75	.75	.74	.74
11	.86	.87	.88	.90	.92	.94	.95	.95	.97	.98	.96	.99	1.00	1.00	1.00	1.00
12	1.06	1.08	1.09	1.13	1.15	1.18	1.19	1.20	1.22	1.24	1.25	1.27	1.28	1.28	1.29	1.29
13	1.29	1.31	1.33	1.37	1.41	1.44	1.46	1.49	1.50	1.53	1.55	1.57	1.59	1.61	1.62	1.63
14	1.54	1.56	1.59	1.64	1.69	1.74	1.76	1.78	1.82	1.85	1.89	1.92	1.94	1.97	1.99	2.00
15	1.81	1.84	1.88	1.94	2.00	2.06	2.09	2.11	2.16	2.21	2.25	2.29	2.33	2.36	2.39	2.42
16	2.10	2.14	2.18	2.26	2.34	2.41	2.44	2.47	2.54	2.59	2.65	2.70	2.75	2.79	2.83	2.87
17	2.41	2.46	2.51	2.61	2.70	2.78	2.82	2.86	2.94	3.01	3.08	3.14	3.20	3.26	3.31	3.36
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.23	3.28	3.37	3.46	3.54	3.62	3.69	3.76	[illegible]	3.89
19	3.11	[illegible]	3.24	3.37	[illegible]	3.61	3.67	3.73	3.83	3.94	4.04	4.13	4.22	4.30	[illegible]	4.46
20	[illegible]	[illegible]	[illegible]	[illegible]	3.93	[illegible]	4.14	[illegible]	[illegible]	4.45	4.56	4.67	4.78	4.88	[illegible]	[illegible]
21	3.89	3.98	4.07	4.23	4.40	4.55	4.63	4.70	4.85	4.99	5.12	5.25	5.37	5.49	5.61	5.71
22	4.32	4.42	4.51	4.70	4.89	5.06	5.15	5.23	5.40	5.56	5.71	5.86	6.00	6.14	6.27	6.40
23	4.76	4.87	4.98	5.20	5.40	5.60	5.70	5.79	5.98	6.16	6.34	6.51	6.67	6.83	6.98	7.12
24	[illegible]	[illegible]	[illegible]	5.71	[illegible]	6.17	6.27	[illegible]	6.59	[illegible]	6.99	7.18	7.37	7.55	7.72	7.88
25	[illegible]	[illegible]	[illegible]	[illegible]	6.51	6.76	6.88	[illegible]	7.23	7.46	[illegible]	7.89	[illegible]	[illegible]	[illegible]	8.69
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.64	8.87	[illegible]	[illegible]	9.57
27	6.77	[illegible]	[illegible]	7.41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.15	9.42	9.68	9.93	10.17	[illegible]
28	7.33	7.50	7.68	8.03	8.37	8.70	8.86	9.02	9.33	9.64	9.94	10.23	10.51	10.79	11.06	11.32
29	7.90	8.10	8.29	8.67	9.04	9.40	9.57	9.75	10.09	10.43	10.76	11.08	11.39	11.69	11.99	12.28
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.25	11.61	[illegible]	12.30	12.63	12.95	13.27
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.49	[illegible]	13.24	[illegible]	[illegible]	14.31
32	9.77	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.11	[illegible]	[illegible]	[illegible]	13.81	14.22	14.61	[illegible]	15.38
33	[illegible]	[illegible]	[illegible]	11.47	[illegible]	[illegible]	12.71	[illegible]	[illegible]	[illegible]	[illegible]	14.79	15.23	15.66	[illegible]	16.49
34	11.12	11.41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.81	16.28	16.74	[illegible]	17.64
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.17	14.45	14.73	15.27	[illegible]	16.34	[illegible]	[illegible]	17.86	18.35	[illegible]
36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.46	[illegible]	[illegible]	[illegible]	[illegible]	21.32
38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.63
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.97
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25.35
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.31	[illegible]	[illegible]	24.59	25.33	[illegible]	26.77
42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.47	28.23
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.72	[illegible]	26.44	27.28	[illegible]	[illegible]	29.73
44	19.21	[illegible]	[illegible]	[illegible]	[illegible]	23.16	[illegible]	24.11	[illegible]	[illegible]	[illegible]	27.79	[illegible]	[illegible]	[illegible]	31.27
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	32.84
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.51	[illegible]	[illegible]	[illegible]	[illegible]	31.58	32.55	[illegible]	34.46
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.64	[illegible]	27.75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.11	35.12	[illegible]
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28.44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35.69	[illegible]	37.81
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	32.71	[illegible]	[illegible]	37.32	[illegible]	39.54
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.15	[illegible]	[illegible]	38.98	[illegible]	[illegible]
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.67	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
52	27.26	27.99	28.72	30.16	31.58	32.99	33.69	34.38	35.76	37.12	38.47	39.80	41.11	42.41	43.69	44.96
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44.18	[illegible]	[illegible]
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44.57	45.99	[illegible]	48.77
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	47.93	[illegible]	[illegible]
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	43.44	[illegible]	46.61	48.16	49.71	[illegible]	[illegible]
57	[illegible]	[illegible]	[illegible]	36.55	38.29	40.02	40.88	41.73	43.42	45.10	46.75	48.39	50.01	51.62	53.21	54.78
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
59	35.46	36.42	37.38	39.28	41.16	43.02	43.95	44.87	46.69	48.50	50.29	52.07	53.82	55.56	57.28	58.98
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	52.11	[illegible]	[illegible]	[illegible]	61.14

* 1 KIP = 1,000 POUNDS

Table 33.--Log weights for scaling lengths of 4 to 32 feet: density index = 60 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=60

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.04	[illegible]	[illegible]	.10	.11	.12	.13	.14	.14	.15	.16	.16	.16	.17	.17	.17
7	[illegible]	[illegible]	.11	.14	.16	.17	.19	.20	.21	.22	.23	.24	.25	.25	.26	.26
8	.08	.12	.15	.18	.21	.24	.26	.27	.28	.30	.32	.34	.35	.36	.37	.38
9	.10	.15	.19	.23	.27	.31	.34	.36	.37	.40	.42	.45	.47	.49	.50	.52
10	.13	[illegible]	.24	.29	.34	.39	.43	.45	.47	.51	.54	.58	[illegible]	.63	.66	.68
11	[illegible]	.22	[illegible]	.35	.42	[illegible]	.53	.55	.58	.63	.68	.72	.76	.79	.83	.86
12	.18	.27	.35	.43	.51	.58	.64	.68	.71	.77	.83	.88	.93	.98	1.02	1.06
13	.22	[illegible]	[illegible]	.51	[illegible]	.69	.77	.81	.84	.92	.99	1.05	1.12	1.18	1.23	1.28
14	.25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.90	.95	.99	1.08	1.17	1.25	1.32	1.40	1.46	1.57
15	.29	.43	.56	.69	.81	.93	1.04	1.10	1.15	1.26	1.36	1.45	1.55	1.63	1.72	1.80
16	.33	[illegible]	[illegible]	.79	[illegible]	1.17	[illegible]	1.26	1.33	1.45	1.57	1.68	[illegible]	1.89	1.99	2.08
17	.37	.55	.73	.89	1.06	1.21	1.36	1.44	1.51	1.65	1.79	1.92	2.04	2.16	2.28	2.39
18	.42	.62	.82	1.01	1.19	1.37	1.54	1.62	1.71	1.87	2.02	2.17	2.32	2.46	2.59	2.72
19	.47	[illegible]	.91	1.13	[illegible]	1.53	1.73	1.82	1.92	2.10	2.28	2.45	2.61	2.77	2.93	3.07
20	.52	.77	1.02	1.25	1.48	1.71	1.93	2.03	2.14	2.34	2.54	2.73	2.92	3.10	3.28	3.45
21	.58	.85	1.12	1.39	1.64	1.89	2.13	2.25	2.37	2.60	2.82	3.04	3.25	3.45	3.65	3.84
22	[illegible]	[illegible]	1.23	1.52	1.81	2.08	2.35	2.49	2.61	2.87	3.12	3.36	3.59	3.82	4.04	4.26
23	[illegible]	[illegible]	1.35	1.67	1.98	2.29	[illegible]	2.77	2.87	3.15	3.43	[illegible]	3.96	4.21	4.46	[illegible]
24	.75	1.12	1.47	1.82	2.16	2.50	2.82	2.98	3.14	3.45	3.75	4.05	4.34	4.62	4.89	5.15
25	.82	1.21	1.60	1.98	2.35	2.72	3.07	3.25	3.42	3.76	4.09	4.42	4.73	5.04	5.34	5.63
26	[illegible]	[illegible]	[illegible]	2.15	2.55	2.95	[illegible]	[illegible]	3.71	[illegible]	[illegible]	[illegible]	5.15	5.48	5.81	6.14
27	.96	1.42	1.88	2.32	2.76	3.19	3.61	3.81	4.02	4.42	4.82	5.20	5.58	5.95	6.31	6.66
28	[illegible]	[illegible]	[illegible]	[illegible]	2.97	[illegible]	[illegible]	4.11	4.34	4.77	[illegible]	5.62	[illegible]	6.43	[illegible]	7.20
29	1.10	1.64	2.17	2.69	3.20	3.69	4.18	4.43	4.66	5.14	5.60	6.05	6.49	6.93	7.35	7.77
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.96	4.49	4.75	[illegible]	5.51	[illegible]	6.50	6.98	7.45	7.91	8.36
31	1.26	1.88	2.48	3.08	3.66	4.24	4.80	5.08	5.36	5.90	6.44	6.96	7.48	7.98	8.48	8.96
32	1.35	2.01	2.65	3.29	3.91	4.53	5.13	5.43	5.72	6.31	6.88	7.44	8.00	8.54	9.07	9.59
33	[illegible]	[illegible]	[illegible]	[illegible]	4.17	4.82	5.47	5.79	6.10	6.72	[illegible]	7.94	8.53	9.11	9.69	10.25
34	[illegible]	[illegible]	[illegible]	3.72	4.43	5.13	5.81	6.15	6.49	7.15	7.81	8.45	9.08	9.71	10.32	10.92
35	1.61	[illegible]	[illegible]	3.94	[illegible]	5.44	6.17	[illegible]	6.89	[illegible]	[illegible]	[illegible]	9.56	10.32	10.97	11.61
36	1.71	[illegible]	[illegible]	4.18	[illegible]	[illegible]	6.54	[illegible]	7.30	[illegible]	[illegible]	9.57	10.24	10.95	11.64	12.33
37	[illegible]	[illegible]	[illegible]	4.42	5.26	6.10	6.92	7.33	7.73	[illegible]	9.31	[illegible]	10.85	11.60	12.34	13.06
38	[illegible]	[illegible]	[illegible]	4.66	[illegible]	6.44	7.31	7.74	8.17	[illegible]	9.84	10.66	11.47	12.27	[illegible]	13.82
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.79	7.71	8.16	8.62	9.51	[illegible]	11.26	12.11	12.95	[illegible]	14.60
40	2.11	[illegible]	4.17	5.18	6.17	7.15	8.12	[illegible]	9.08	[illegible]	[illegible]	11.86	12.77	13.56	[illegible]	15.46
41	2.22	3.31	4.38	5.44	6.49	7.52	8.54	9.05	9.55	10.54	11.52	12.49	13.44	14.38	15.31	16.22
42	[illegible]	[illegible]	[illegible]	5.72	[illegible]	[illegible]	8.98	9.51	[illegible]	[illegible]	12.11	13.13	14.14	15.13	16.11	17.07
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.42	[illegible]	10.57	11.63	12.72	13.79	14.84	15.89	16.92	17.93
44	2.56	3.81	5.05	6.28	7.49	8.69	9.87	10.46	11.04	12.20	13.34	14.45	15.57	16.67	17.75	18.82
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.56	12.77	13.97	15.15	16.32	17.47	[illegible]	19.73
46	[illegible]	4.17	[illegible]	[illegible]	[illegible]	9.52	10.81	11.46	[illegible]	[illegible]	14.62	15.85	[illegible]	18.29	19.48	20.66
47	[illegible]	[illegible]	[illegible]	7.18	[illegible]	9.94	[illegible]	11.97	12.64	13.97	[illegible]	[illegible]	17.86	19.12	[illegible]	[illegible]
48	[illegible]	[illegible]	[illegible]	7.49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.96	17.31	18.65	19.98	21.29	22.58
49	3.18	4.74	6.28	7.81	9.33	10.82	12.30	13.04	13.77	15.22	16.65	18.07	19.47	20.85	22.22	23.57
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.84	[illegible]	21.74	23.17	24.59
51	[illegible]	[illegible]	[illegible]	8.47	[illegible]	11.74	13.35	14.15	14.94	16.52	[illegible]	19.62	21.15	[illegible]	24.15	[illegible]
52	3.58	5.34	7.09	8.81	10.52	12.22	13.89	14.72	15.55	17.19	18.81	20.42	22.01	23.58	25.14	26.68
53	3.72	5.55	7.36	9.16	10.94	12.70	14.44	15.31	16.17	17.88	19.57	21.24	22.89	24.53	26.16	27.76
54	3.86	5.76	7.65	9.51	11.36	13.19	15.00	15.90	16.80	18.57	20.33	22.07	23.80	25.50	27.19	28.86
55	4.00	5.98	7.94	9.87	11.79	13.69	15.57	16.51	17.44	19.28	21.11	22.92	24.71	26.49	28.24	29.98
56	[illegible]	[illegible]	[illegible]	10.24	12.23	[illegible]	[illegible]	17.13	[illegible]	[illegible]	[illegible]	23.79	25.65	27.49	29.32	31.12
57	[illegible]	6.43	[illegible]	10.61	[illegible]	[illegible]	16.75	17.76	18.76	20.75	22.72	24.67	[illegible]	28.52	30.41	32.29
58	4.46	6.65	8.83	10.99	13.13	15.25	17.35	18.40	19.44	21.50	23.54	25.57	27.57	29.56	31.53	33.47
59	[illegible]	[illegible]	9.14	11.38	[illegible]	15.79	17.97	[illegible]	20.13	[illegible]	24.38	26.48	28.56	30.62	[illegible]	34.68
60	4.77	7.12	9.46	11.77	14.07	16.34	18.59	19.71	20.83	23.04	25.23	27.41	29.56	31.70	33.81	35.91

* 1 KIP=1[illegible]

Table 34.--Log weights for scaling lengths of 34 to 60 feet: density index = 60 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=60

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	41	42	43	44	46	48	50	52	54	56	58	60
6	.17	.17	.16	.16	.16	.15	.15	.15	.14	.14	.13	.12	.12	.11	.10	.09
7	.27	.27	.27	.27	.26	.26	.26	.26	.25	.25	.24	.24	.23	.22	.21	.20
8	.39	.39	.39	.39	.40	.40	.40	.40	.39	.39	.39	.38	.37	.37	.36	.35
9	.53	.54	.54	.55	.56	.56	.56	.56	.57	.57	.56	.56	.56	.55	.54	.54
10	.70	.71	.71	.73	.74	.75	.76	.76	.77	.77	.77	.78	.78	.77	.77	.76
11	.89	.90	.91	.93	.95	.97	.98	.99	1.00	1.01	1.02	1.03	1.03	1.03	1.03	1.03
12	1.10	1.12	1.13	1.16	1.19	1.22	1.23	1.24	1.26	1.28	1.30	1.31	1.32	1.33	1.33	1.34
13	1.33	1.36	[illegible]	1.42	[illegible]	1.49	1.51	1.53	1.56	1.58	1.61	1.63	1.65	1.66	[illegible]	1.69
14	[illegible]	[illegible]	[illegible]	[illegible]	1.75	[illegible]	1.82	[illegible]	[illegible]	1.92	[illegible]	1.98	2.01	[illegible]	[illegible]	2.07
15	1.87	1.91	1.94	2.01	2.07	2.13	2.16	2.19	2.24	2.29	2.33	2.37	2.41	2.44	2.47	2.50
16	2.17	[illegible]	[illegible]	2.34	2.42	2.49	2.52	2.56	2.62	[illegible]	2.74	2.79	2.84	2.89	2.93	2.97
17	[illegible]	[illegible]	[illegible]	[illegible]	2.79	2.88	2.92	2.96	3.04	3.11	3.19	3.25	3.31	3.37	3.43	3.48
18	[illegible]	[illegible]	[illegible]	[illegible]	3.16	3.29	3.34	3.39	3.49	3.58	3.66	3.74	3.82	3.89	3.96	4.03
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.74	[illegible]	3.85	3.97	4.07	4.19	4.27	4.36	4.45	4.54	4.61
20	[illegible]	[illegible]	3.77	3.92	[illegible]	4.21	4.28	4.34	4.49	[illegible]	4.72	4.83	4.94	5.05	5.15	5.24
21	[illegible]	[illegible]	4.21	4.38	4.55	4.71	4.79	4.86	5.02	5.16	[illegible]	5.43	5.56	5.68	[illegible]	5.91
22	4.47	4.57	4.67	4.86	5.05	5.24	5.33	5.41	5.59	5.75	5.91	6.06	6.21	6.35	6.49	6.62
23	[illegible]	[illegible]	5.15	5.37	5.59	5.79	5.89	5.99	6.19	6.37	6.55	6.73	6.90	7.06	7.22	7.37
24	5.41	5.54	5.66	5.91	6.15	6.38	6.49	6.60	6.82	7.03	7.23	7.43	7.62	7.81	7.98	8.16
25	[illegible]	[illegible]	[illegible]	6.47	6.73	6.99	7.12	7.24	7.48	7.72	7.95	8.17	[illegible]	8.59	8.79	8.98
26	[illegible]	[illegible]	[illegible]	7.16	7.39	7.63	7.77	7.91	8.18	8.44	8.69	8.94	9.18	9.41	9.63	9.85
27	[illegible]	7.17	[illegible]	7.67	7.99	8.30	8.45	8.60	8.90	9.19	9.47	9.74	10.01	10.27	10.52	10.76
28	[illegible]	[illegible]	[illegible]	[illegible]	8.61	[illegible]	9.16	9.33	9.65	9.97	10.28	10.58	10.88	11.16	11.44	11.71
29	8.18	8.38	8.58	8.97	9.35	9.72	9.90	10.08	10.44	10.79	11.13	11.46	11.78	12.10	12.40	12.70
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.47	10.67	10.87	11.26	11.64	12.01	12.37	12.72	13.07	13.40	13.73
31	[illegible]	[illegible]	[illegible]	10.37	[illegible]	11.25	11.47	11.68	12.10	12.52	12.92	13.31	13.71	14.07	14.44	14.80
32	[illegible]	[illegible]	[illegible]	11.10	11.57	[illegible]	12.30	12.53	12.98	13.43	13.86	14.29	14.71	15.12	15.52	15.91
33	[illegible]	[illegible]	[illegible]	11.87	12.39	[illegible]	13.15	13.40	13.99	14.37	14.84	15.31	15.76	16.20	16.63	17.06
34	11.51	11.80	12.09	12.66	13.22	13.76	14.03	14.30	14.83	15.35	15.86	16.35	16.84	17.32	17.79	18.25
35	12.24	[illegible]	[illegible]	13.47	[illegible]	14.66	14.95	15.23	15.80	[illegible]	16.90	17.44	17.96	18.48	18.98	19.48
36	13.00	13.33	13.66	14.31	14.95	15.58	15.89	16.19	16.80	17.40	17.98	18.56	19.12	19.67	20.21	20.75
37	[illegible]	14.17	[illegible]	[illegible]	[illegible]	16.53	16.86	17.19	17.83	18.47	19.09	19.71	20.31	20.90	21.49	22.06
38	14.58	14.96	15.33	16.07	16.79	17.50	17.86	18.21	18.89	19.57	20.24	20.90	21.54	22.17	22.79	23.41
39	[illegible]	[illegible]	[illegible]	[illegible]	17.75	[illegible]	18.88	19.25	19.99	20.71	21.42	22.12	22.80	23.49	24.14	24.80
40	[illegible]	[illegible]	[illegible]	17.79	[illegible]	19.54	19.94	[illegible]	21.11	21.88	22.63	23.37	24.11	24.82	25.53	26.23
41	17.17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.02	21.44	22.27	23.09	23.88	24.67	25.44	26.21	26.96	27.70
42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.69	22.14	22.58	23.45	24.31	25.15	25.99	26.82	27.62	28.42	29.21
43	18.94	19.43	19.92	20.90	21.86	22.81	23.28	23.75	24.67	25.58	26.47	27.35	28.22	29.08	29.93	30.76
44	19.87	20.40	20.92	21.94	22.96	23.96	24.45	24.94	25.91	26.87	27.82	28.75	29.67	30.57	31.47	32.35
45	[illegible]	[illegible]	[illegible]	23.11	[illegible]	25.17	25.65	26.17	27.19	[illegible]	[illegible]	30.18	31.15	32.11	33.05	33.98
46	21.82	22.40	22.97	24.10	25.23	26.33	26.88	27.42	28.50	29.56	30.61	31.65	32.67	33.68	34.67	35.65
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.66	28.14	28.71	29.84	30.96	32.06	33.15	34.22	35.28	36.33	37.36
48	[illegible]	[illegible]	[illegible]	26.77	27.64	[illegible]	29.42	[illegible]	31.21	32.38	[illegible]	34.68	35.81	36.92	[illegible]	39.11
49	24.91	25.57	26.23	27.54	28.83	30.10	30.74	31.36	32.61	33.84	35.05	36.25	37.44	38.61	39.76	40.90
50	25.99	26.68	27.37	28.73	30.08	31.42	32.08	32.74	34.04	35.33	36.60	37.86	39.10	40.32	41.53	42.73
51	27.08	27.81	28.53	29.95	31.36	32.76	33.45	34.14	35.50	36.85	38.18	39.50	40.80	42.08	43.35	44.60
52	28.20	28.96	29.71	31.20	32.67	34.13	34.85	35.57	36.99	38.40	39.79	41.17	42.53	43.87	45.20	46.51
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	38.52	39.99	41.44	42.88	[illegible]	[illegible]	[illegible]	48.46
54	30.51	31.33	32.15	33.77	35.37	36.95	37.74	38.52	40.07	41.61	43.12	44.62	46.11	47.57	49.02	50.46
55	31.70	32.56	33.40	35.09	36.76	38.41	39.23	40.04	41.66	43.26	44.84	46.40	47.95	49.48	50.99	52.49
56	[illegible]	[illegible]	[illegible]	[illegible]	38.17	[illegible]	[illegible]	[illegible]	43.27	44.94	[illegible]	48.21	49.87	51.42	[illegible]	54.56
57	[illegible]	[illegible]	[illegible]	37.91	39.61	41.40	42.29	43.17	44.92	46.65	48.36	50.06	51.74	53.40	55.04	56.67
58	35.40	36.36	37.32	39.21	41.08	42.94	43.86	44.78	46.60	48.40	50.18	51.94	53.69	55.42	57.13	58.82
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44.51	[illegible]	[illegible]	[illegible]	50.17	[illegible]	[illegible]	[illegible]	57.47	[illegible]	61.01
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	51.94	53.91	55.81	57.70	59.57	61.41	63.24

Table 35.--Log weights for scaling lengths of 4 to 32 feet: density index = 62 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=62

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)															
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.05	.07	.08	.10	.11	.13	.14	.14	.15	.15	.16	.17	.17	.17	.17	.17
7	.06	.09	.12	.14	.16	.18	.20	.21	.21	.23	.24	.25	.26	.26	.27	.27
8	.08	.12	.15	.19	.22	.24	.27	.28	.29	.31	.33	.35	.36	.37	.38	.39
9	.11	.15	.20	.24	.28	.32	.35	.37	.38	.41	.44	.46	.48	.50	.52	.53
10	.13	.19	.25	.30	.35	.40	.45	.47	.49	.53	.56	.59	.62	.65	.68	.70
11	.16	[illegible]	[illegible]	[illegible]	.43	.49	.55	.58	.61	.65	[illegible]	.74	.78	.82	[illegible]	.89
12	.19	.28	.36	.45	.52	.60	.67	.70	.73	.79	.85	.91	.96	1.01	1.05	1.10
13	.22	.33	.43	.53	.62	.71	.79	.83	.87	.95	1.02	1.09	1.15	1.22	1.27	1.33
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.03	1.12	[illegible]	1.29	1.37	1.44	1.51	1.58
15	.30	.44	.58	.71	.84	.96	1.08	1.14	1.19	1.30	1.40	1.50	1.60	1.69	1.77	1.85
16	.34	.51	.66	.81	.96	1.10	1.24	1.31	1.37	1.50	1.62	1.73	1.85	1.95	2.05	2.15
17	.39	.57	.75	.92	1.09	1.25	1.41	1.49	1.56	1.71	1.85	1.98	2.11	2.24	2.36	2.47
18	.43	.64	.84	1.04	1.23	1.41	1.59	1.68	1.76	1.93	2.09	2.25	2.40	2.54	2.68	2.81
19	.49	.72	.94	1.16	1.38	1.58	1.79	1.88	1.98	2.17	2.35	2.53	2.70	2.86	3.02	3.18
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.76	1.90	2.10	2.21	2.42	2.62	2.83	3.02	3.21	3.39	3.56
21	[illegible]	[illegible]	1.16	1.43	1.71	1.95	2.20	2.33	2.45	2.69	2.92	3.14	3.36	3.57	3.77	3.97
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.15	2.43	2.57	2.70	2.97	3.22	3.47	3.71	3.95	4.18	4.40
23	.71	1.06	1.40	1.73	2.05	2.36	2.67	2.82	2.97	3.26	3.54	3.82	4.09	4.35	4.60	4.85
24	[illegible]	[illegible]	[illegible]	[illegible]	2.24	2.58	2.92	[illegible]	3.24	3.57	3.88	4.18	4.48	4.77	5.05	5.33
25	[illegible]	[illegible]	[illegible]	[illegible]	2.43	2.81	3.18	3.36	3.53	3.89	4.23	4.56	4.89	5.21	5.52	5.82
26	[illegible]	1.36	1.79	2.22	2.64	3.05	3.45	3.64	3.84	4.22	4.59	4.96	5.32	5.67	6.01	6.34
27	[illegible]	1.47	1.94	2.40	2.95	3.29	3.73	3.94	4.15	4.57	4.98	5.37	5.76	6.14	6.52	6.88
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.02	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.23	6.64	7.05	7.44
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.31	5.79	6.25	6.71	7.18	[illegible]	8.03
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.64	4.91	5.17	[illegible]	6.21	6.71	7.21	7.69	8.17	8.63
31	[illegible]	[illegible]	[illegible]	3.18	[illegible]	4.38	[illegible]	5.25	5.54	[illegible]	[illegible]	7.19	7.73	8.25	8.76	9.26
32	[illegible]	[illegible]	2.74	[illegible]	[illegible]	4.68	5.30	5.61	5.91	6.52	7.11	7.69	8.26	8.82	9.37	9.91
33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.98	5.65	5.98	6.30	6.95	7.58	[illegible]	8.82	9.42	10.01	10.59
34	1.57	2.34	3.10	3.84	4.58	5.30	6.01	6.36	6.71	7.39	8.07	8.73	9.39	10.03	10.66	11.28
35	1.67	2.48	3.29	4.08	4.85	5.62	6.38	6.75	7.12	7.85	8.57	9.28	9.98	10.66	11.34	12.00
36	1.76	2.63	3.48	4.32	5.14	5.96	6.76	7.15	7.55	8.32	9.09	9.84	10.58	11.31	12.03	12.74
37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.15	7.57	7.99	8.81	9.62	10.42	11.21	11.99	12.75	13.50
38	[illegible]	[illegible]	[illegible]	[illegible]	5.74	[illegible]	7.55	[illegible]	8.44	9.31	10.17	11.02	11.85	12.68	[illegible]	14.28
39	2.07	3.09	4.09	5.08	6.06	7.02	7.97	8.44	8.90	9.83	10.73	11.63	12.51	13.39	14.24	15.09
40	2.18	3.25	4.31	5.35	6.38	7.39	8.39	8.89	9.38	10.35	11.31	12.26	13.19	14.11	15.02	15.92
41	[illegible]	[illegible]	[illegible]	[illegible]	6.71	7.77	8.83	[illegible]	9.87	10.89	11.91	12.91	13.89	14.86	15.82	16.77
42	2.41	3.59	4.75	5.91	7.04	8.17	9.28	9.82	10.37	11.45	12.52	13.57	14.61	15.63	16.64	17.64
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.57	9.73	[illegible]	[illegible]	[illegible]	13.14	14.25	[illegible]	16.42	[illegible]	18.53
44	[illegible]	[illegible]	[illegible]	6.49	7.74	8.98	[illegible]	10.81	11.41	[illegible]	13.78	14.94	[illegible]	17.22	[illegible]	19.45
45	[illegible]	4.12	[illegible]	6.79	8.11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.43	15.65	16.86	18.05	19.22	20.39
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.17	11.84	12.50	13.81	[illegible]	16.38	17.65	18.89	20.13	21.35
47	[illegible]	[illegible]	[illegible]	7.42	[illegible]	10.27	11.66	[illegible]	[illegible]	14.47	15.79	[illegible]	18.45	19.76	21.05	22.33
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.72	12.19	12.92	13.64	15.07	16.49	17.89	19.27	20.64	22.00	23.33
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.18	12.71	13.47	14.23	[illegible]	[illegible]	18.67	20.12	21.55	22.96	24.36
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.65	13.25	14.04	14.83	16.39	17.94	19.46	20.97	22.47	23.95	25.41
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.13	13.80	[illegible]	15.44	17.07	18.68	20.27	21.85	23.41	24.95	26.48
52	[illegible]	[illegible]	[illegible]	9.11	[illegible]	12.62	14.35	15.21	16.07	17.76	19.44	[illegible]	22.75	24.37	[illegible]	27.57
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.12	14.92	15.82	16.71	18.47	20.22	21.95	23.66	25.35	27.03	28.68
54	[illegible]	[illegible]	[illegible]	[illegible]	11.74	13.63	[illegible]	16.43	17.36	19.19	21.01	22.81	24.59	26.35	28.10	29.82
55	[illegible]	[illegible]	[illegible]	[illegible]	12.18	14.15	16.09	[illegible]	18.02	[illegible]	21.82	23.69	25.54	27.37	29.18	30.98
56	4.29	6.41	8.50	10.58	12.64	14.68	16.70	17.70	18.69	20.68	22.64	24.58	26.50	28.41	30.29	32.16
57	[illegible]	[illegible]	[illegible]	10.97	[illegible]	15.21	17.31	[illegible]	[illegible]	21.44	23.47	25.49	27.49	29.47	31.43	33.36
58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.21	[illegible]	26.42	28.49	30.54	[illegible]	34.59
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.32	18.57	[illegible]	[illegible]	[illegible]	25.19	27.36	29.51	31.64	33.75	35.84
60	4.93	7.36	9.77	12.16	14.53	16.88	19.21	20.37	21.52	23.81	26.08	28.32	30.55	32.76	34.94	37.11

* [illegible]

Table 36.--Log weights for scaling lengths of 34 to 60 feet: density index = 62 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=62

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.17	.17	.17	.17	.16	.16	.16	.15	.15	.14	.14	.13	.12	.11	.11	.10
7	.27	.27	.27	.27	.27	.27	.27	.27	.26	.26	.25	.24	.24	.23	.22	.21
8	.40	.40	.40	.41	.41	.41	.41	.41	.41	.40	.40	.39	.39	.38	.37	.36
9	.55	.55	.56	.57	.57	.58	.58	.58	.58	.58	.58	.58	.58	.57	.56	.55
10	.72	.73	.74	.75	.77	.78	.78	.79	.79	.80	.80	.80	.80	.80	.79	.79
11	.92	.93	.94	.96	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.06	1.07	1.07	1.07
12	1.13	1.15	1.17	1.20	1.23	1.26	1.27	1.28	1.30	1.32	1.34	1.35	1.36	1.37	1.38	1.38
13	1.38	[illegible]	1.42	1.47	1.51	1.54	1.56	1.58	1.61	1.64	1.66	1.68	1.70	1.72	1.73	1.74
14	1.64	1.67	[illegible]	1.76	1.81	1.86	1.88	1.90	1.94	1.98	2.02	2.05	2.08	2.10	2.12	2.14
15	1.93	1.97	2.01	2.07	2.14	2.20	2.23	2.26	2.31	2.36	2.41	2.45	2.49	2.52	2.56	2.59
16	2.25	2.29	2.33	2.42	2.50	2.57	2.61	2.64	2.71	2.77	2.83	2.89	2.94	2.99	3.03	3.07
17	2.58	2.63	2.69	2.79	2.88	2.97	3.02	3.06	3.14	3.22	3.29	3.36	3.42	3.49	3.54	3.59
18	2.94	[illegible]	3.06	3.19	3.30	3.40	3.46	3.51	3.60	3.70	3.79	3.87	3.95	4.02	4.09	4.16
19	3.32	3.40	3.47	3.60	3.74	3.86	3.92	3.98	4.10	4.21	4.31	4.41	4.51	4.60	4.69	4.77
20	3.73	3.81	3.89	4.05	4.20	4.35	4.42	4.49	4.62	4.75	4.88	5.00	5.11	5.22	5.32	5.42
21	4.16	4.26	4.35	4.53	4.70	4.87	4.95	5.03	5.18	5.33	5.47	5.61	5.74	5.87	5.99	6.11
22	4.62	4.72	4.82	5.03	5.22	5.41	5.50	5.59	5.77	5.94	6.11	6.27	6.42	6.56	6.70	6.84
23	5.09	5.21	5.33	5.55	5.77	5.99	6.09	6.19	6.39	6.59	6.77	6.95	7.13	7.30	7.46	7.61
24	5.59	5.72	5.85	6.11	6.35	6.59	6.71	6.82	7.05	7.26	7.47	7.68	7.88	8.07	8.25	8.43
25	6.12	6.26	6.41	6.69	6.96	7.22	7.35	7.48	7.73	7.97	8.21	8.44	8.66	8.88	9.08	9.28
26	6.67	6.82	6.98	7.29	7.59	7.88	8.03	8.17	8.45	8.72	8.98	9.24	9.48	9.72	9.96	10.18
27	7.24	7.41	7.58	7.92	8.26	8.59	8.73	8.89	9.20	9.49	9.78	10.07	10.34	10.61	10.87	11.12
28	7.83	[illegible]	8.21	8.58	8.94	9.31	9.47	9.64	9.98	10.30	10.62	10.94	11.24	11.53	11.82	12.10
29	8.45	8.66	8.86	9.26	9.66	10.04	10.23	10.42	10.79	11.15	11.50	11.84	12.17	12.50	12.82	13.12
30	[illegible]	9.32	9.54	9.97	10.40	10.82	11.03	11.23	11.63	12.02	12.41	12.78	13.14	13.50	13.85	14.19
31	9.76	[illegible]	10.24	10.71	11.17	11.63	11.85	12.07	12.51	12.93	13.35	13.76	14.15	14.54	14.92	15.29
32	10.44	10.71	10.96	11.47	11.97	12.46	12.71	12.94	13.41	13.88	14.33	14.77	15.20	15.62	16.03	16.44
33	11.15	11.44	11.71	[illegible]	12.80	13.33	13.59	13.85	14.35	14.85	15.34	15.82	16.28	16.74	17.19	17.63
34	11.89	12.19	12.49	13.08	13.66	14.22	14.50	14.78	15.32	15.86	16.38	16.90	17.40	17.90	18.38	18.86
35	12.65	12.97	13.29	13.92	14.54	15.15	15.44	15.74	16.33	16.90	17.46	18.02	18.56	19.09	19.61	20.13
36	13.43	13.78	14.12	14.79	15.45	16.10	16.42	16.73	17.36	17.98	18.58	19.17	19.76	20.33	20.89	21.44
37	[illegible]	[illegible]	14.97	15.68	16.35	17.08	17.42	17.76	18.43	19.08	19.73	20.36	20.99	21.60	22.20	22.79
38	15.07	15.46	15.84	16.60	17.35	18.09	18.45	18.81	19.52	20.23	20.91	21.59	22.26	22.91	23.55	24.19
39	15.92	[illegible]	16.74	17.55	18.34	19.13	19.51	19.90	20.65	21.40	22.13	22.86	23.56	24.26	24.95	25.62
40	16.80	17.23	17.67	18.52	19.36	20.19	20.60	21.01	21.82	22.61	23.39	24.15	24.91	25.65	26.38	27.10
41	[illegible]	18.16	[illegible]	19.52	20.41	21.29	21.72	22.15	23.01	23.85	24.67	25.49	26.29	27.08	27.86	28.62
42	[illegible]	19.11	[illegible]	[illegible]	21.49	22.42	22.88	23.33	24.23	25.12	[illegible]	26.86	27.71	28.55	29.37	30.18
43	19.57	20.08	20.59	21.60	22.59	23.57	24.06	24.54	25.49	26.43	27.35	28.27	29.17	30.05	30.92	31.78
44	20.54	21.08	21.61	22.67	23.72	24.75	25.27	25.77	26.78	27.77	28.75	29.71	30.66	31.59	32.52	33.42
45	[illegible]	[illegible]	[illegible]	23.78	[illegible]	25.97	26.51	27.04	28.10	29.14	30.17	31.19	32.19	33.18	34.15	35.11
46	[illegible]	23.14	23.74	24.91	[illegible]	27.21	27.77	28.34	29.45	30.55	31.63	32.70	33.76	34.80	35.82	36.84
47	[illegible]	24.21	24.83	[illegible]	[illegible]	28.48	29.07	29.66	30.83	31.99	33.13	34.25	35.36	36.46	37.54	38.60
48	24.65	25.31	25.96	27.25	28.52	29.78	30.40	31.02	32.25	33.46	34.66	35.84	37.00	38.16	39.29	40.41
49	25.74	[illegible]	27.11	28.46	29.79	31.11	31.76	32.41	33.70	34.97	36.22	37.46	38.68	39.89	41.09	42.26
50	[illegible]	27.57	[illegible]	29.69	[illegible]	32.47	33.15	33.93	35.17	36.51	37.82	39.12	40.40	41.67	42.92	44.16
51	27.99	28.73	29.48	30.95	32.41	33.85	34.57	35.28	36.69	38.08	39.45	40.81	42.16	43.48	44.79	46.09
52	29.14	29.92	30.70	32.24	33.76	35.27	36.01	36.76	38.23	39.68	41.12	42.54	43.95	45.34	46.71	48.06
53	[illegible]	31.14	[illegible]	[illegible]	35.14	36.71	37.49	38.27	39.80	41.32	42.82	44.31	45.78	47.23	48.66	50.08
54	31.53	32.39	33.22	34.89	36.56	38.19	39.00	39.81	41.41	42.99	44.56	46.11	47.64	49.16	50.66	52.14
55	[illegible]	33.64	[illegible]	[illegible]	37.98	39.69	40.53	41.78	43.05	44.71	46.33	47.95	49.55	51.13	52.69	54.24
56	34.01	34.93	35.84	37.65	39.45	41.22	42.10	42.98	44.71	46.43	48.14	49.82	51.49	53.13	54.76	56.38
57	[illegible]	[illegible]	[illegible]	[illegible]	40.94	42.79	43.70	44.61	46.42	48.21	49.98	51.73	53.40	55.18	56.88	58.56
58	[illegible]	[illegible]	[illegible]	[illegible]	42.45	44.37	45.32	46.27	48.15	50.01	51.85	53.67	55.48	57.27	59.03	60.78
59	37.91	[illegible]	[illegible]	[illegible]	[illegible]	45.60	[illegible]	47.96	49.91	51.85	53.76	55.66	57.53	59.39	61.23	63.05
60	[illegible]	[illegible]	41.79	43.48	45.57	47.64	48.66	49.69	51.71	53.72	[illegible]	57.67	[illegible]	[illegible]	63.46	65.35

* 1KIP=1000 POUNDS.

Table 37.--Log weights for scaling lengths of 4 to 32 feet: density index = 64 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=64

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.09	[illegible]	[illegible]	[illegible]	.12	.13	.14	.15	.15	.16	.17	.17	.17	.18	.18	.18
7	[illegible]	[illegible]	.12	.14	.17	.19	.20	.21	.22	.23	.25	.26	.26	.27	.28	.28
8	.09	[illegible]	.16	.19	.22	.25	.28	.29	.30	.32	.34	.36	.37	.39	[illegible]	.40
9	.11	.16	.21	.25	.29	.33	.36	.38	.40	.43	.45	.48	.50	.52	.54	.55
10	.14	.20	.26	.31	.36	.41	.46	.48	.50	.54	.59	.61	.64	.67	.70	.72
11	.16	.24	.31	.38	.45	.51	.57	.60	.62	.67	.72	.77	.81	.85	.88	.92
12	.20	.29	.38	.46	.54	.62	.69	.72	.76	.82	.88	.94	.99	1.04	1.09	1.13
13	.23	.34	.44	.54	.64	.73	.82	.86	.90	.98	1.05	1.12	1.19	1.25	1.31	1.37
14	.27	.40	.52	.64	.75	.86	.96	1.01	1.06	1.15	1.24	1.33	1.41	1.49	1.56	1.63
15	.31	.46	.60	.74	.87	.99	1.11	1.17	1.23	1.34	1.45	1.55	1.65	1.74	1.83	1.91
16	.35	.52	.68	.84	.99	1.14	1.28	1.35	1.41	1.55	1.67	1.79	1.91	2.02	2.12	2.22
17	.40	.59	.78	.95	1.13	1.29	1.46	1.53	1.61	1.76	1.91	2.05	2.18	2.31	2.43	2.55
18	.45	.66	.87	1.07	1.27	1.46	1.64	1.73	1.82	1.99	2.16	2.32	2.47	2.62	2.77	2.90
19	[illegible]	[illegible]	.97	[illegible]	1.42	1.64	1.84	1.94	2.04	2.24	2.43	2.61	2.79	2.96	3.12	3.28
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.82	2.05	2.17	2.28	[illegible]	2.71	2.92	3.12	3.31	[illegible]	3.68
21	[illegible]	[illegible]	[illegible]	1.48	1.75	2.02	2.28	2.40	2.53	2.77	3.01	3.24	3.47	[illegible]	3.89	4.10
22	.67	1.00	1.32	1.63	1.93	2.22	2.51	2.65	2.79	3.06	3.33	3.58	3.83	4.08	4.31	4.54
23	.74	1.09	1.44	1.78	2.11	2.44	2.75	2.91	3.06	3.36	3.66	3.94	4.22	4.49	4.75	5.01
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.11	3.18	3.35	[illegible]	[illegible]	4.32	4.62	4.92	5.21	5.50
25	[illegible]	[illegible]	1.71	2.11	[illegible]	[illegible]	3.29	3.46	3.65	4.01	4.36	4.71	5.05	5.38	[illegible]	6.01
26	.94	1.40	1.85	2.29	2.72	3.14	3.56	3.76	3.96	4.36	4.74	5.12	5.49	5.85	6.20	6.55
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.85	[illegible]	4.29	4.72	5.14	5.55	5.95	6.34	6.73	7.10
28	1.10	1.63	2.15	2.67	3.17	3.67	4.15	4.39	4.62	5.09	5.55	5.99	6.43	6.86	7.27	7.68
29	[illegible]	[illegible]	[illegible]	[illegible]	3.41	3.94	4.46	4.70	4.98	5.48	5.97	6.45	6.93	7.39	7.84	8.29
30	[illegible]	[illegible]	[illegible]	[illegible]	3.65	4.27	4.79	[illegible]	5.34	[illegible]	6.41	[illegible]	7.44	7.94	8.43	8.91
31	1.35	2.00	2.65	3.28	3.91	4.52	5.12	5.42	5.72	6.30	6.87	7.43	7.98	8.52	9.04	9.56
32	[illegible]	[illegible]	[illegible]	[illegible]	4.17	[illegible]	[illegible]	5.79	6.11	6.73	7.34	7.94	8.53	9.11	9.68	10.23
33	[illegible]	[illegible]	[illegible]	3.77	[illegible]	5.14	[illegible]	6.17	6.51	7.17	7.83	8.47	9.10	9.72	10.33	10.93
34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.47	[illegible]	6.56	6.92	7.63	8.33	[illegible]	9.69	10.35	[illegible]	11.65
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.58	6.97	7.35	8.11	8.85	9.58	[illegible]	11.01	[illegible]	12.39
36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.15	6.98	7.39	7.79	8.59	9.38	10.16	10.93	11.68	12.42	13.15
37	[illegible]	[illegible]	[illegible]	4.71	5.61	6.50	7.38	7.81	8.24	[illegible]	9.93	10.76	11.57	12.37	13.16	13.94
38	[illegible]	[illegible]	[illegible]	4.97	5.93	6.87	[illegible]	8.26	8.71	9.61	[illegible]	11.37	12.24	13.05	13.92	14.74
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.26	8.22	8.71	9.19	10.14	[illegible]	12.01	[illegible]	[illegible]	[illegible]	15.58
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.66	9.17	9.68	10.69	11.68	12.66	13.62	14.57	15.51	16.43
41	[illegible]	[illegible]	[illegible]	5.31	[illegible]	[illegible]	9.11	9.65	10.19	11.25	12.29	13.32	14.34	15.34	16.33	17.31
42	[illegible]	[illegible]	[illegible]	[illegible]	7.27	[illegible]	9.57	10.14	10.70	11.82	12.92	14.01	15.08	16.13	[illegible]	18.21
43	[illegible]	[illegible]	[illegible]	[illegible]	7.63	[illegible]	10.03	10.64	11.23	12.41	13.56	14.71	15.83	16.95	18.05	19.13
44	2.77	[illegible]	[illegible]	[illegible]	7.99	9.27	10.57	11.16	11.79	13.01	14.22	15.42	16.61	[illegible]	18.93	20.07
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.04
46	[illegible]	[illegible]	[illegible]	[illegible]	8.75	[illegible]	[illegible]	[illegible]	[illegible]	14.26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
47	3.11	4.65	6.16	7.66	9.14	10.61	12.05	12.77	13.48	14.90	16.30	17.68	19.05	20.40	21.73	23.05
48	3.25	4.85	6.43	7.99	9.54	11.07	12.58	13.33	14.08	15.56	17.02	18.47	19.90	21.31	22.70	24.08
49	3.39	5.05	6.70	8.33	9.95	11.55	13.12	13.91	14.69	16.23	17.76	19.27	20.76	22.24	23.70	25.14
50	[illegible]	[illegible]	[illegible]	[illegible]	10.37	[illegible]	[illegible]	[illegible]	15.31	16.92	18.51	[illegible]	21.65	23.19	24.72	26.23
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.53	14.24	[illegible]	15.94	17.62	19.28	20.93	22.56	24.17	25.76	27.33
52	[illegible]	[illegible]	[illegible]	[illegible]	11.20	[illegible]	14.82	[illegible]	16.59	18.34	[illegible]	[illegible]	23.49	25.16	[illegible]	28.46
53	[illegible]	[illegible]	[illegible]	[illegible]	11.57	[illegible]	[illegible]	[illegible]	17.24	[illegible]	[illegible]	22.65	[illegible]	26.17	[illegible]	29.61
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.69	23.54	25.38	[illegible]	[illegible]	30.78
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.61	[illegible]	[illegible]	20.57	[illegible]	24.45	26.36	28.25	30.13	31.98
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.23	[illegible]	[illegible]	21.34	[illegible]	[illegible]	27.36	29.32	31.27	33.20
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.87	[illegible]	[illegible]	22.13	24.23	26.31	28.37	[illegible]	32.44	34.44
58	[illegible]	[illegible]	[illegible]	11.72	[illegible]	[illegible]	18.51	19.62	20.73	[illegible]	25.11	27.27	29.41	31.53	33.63	35.71
59	[illegible]	[illegible]	[illegible]	12.14	[illegible]	[illegible]	19.17	[illegible]	21.47	23.75	[illegible]	28.24	30.46	[illegible]	[illegible]	36.99
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.47	[illegible]	[illegible]	22.22	24.53	26.92	29.24	[illegible]	33.81	[illegible]	[illegible]

* 1 KIP=1 [illegible]

Table 38.--Log weights for scaling lengths of 34 to 60 feet: density index = 64 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=64

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.18	.19	.19	.17	.17	.16	.16	.16	.15	.15	.14	.13	.13	.12	.11	.10
7	.28	.28	.28	.28	.28	.28	.28	.28	.27	.27	.26	.25	.24	.23	.22	.22
8	.41	.41	.42	.42	.42	.42	.42	.42	.42	.42	.41	.41	.40	.39	.38	.37
9	.57	.57	.58	.59	.59	.60	.60	.60	.60	.60	.60	.60	.59	.59	.58	.57
10	.74	.75	.76	.78	.79	.80	.81	.81	.82	.82	.83	.83	.83	.82	.82	.81
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.10	[illegible]	[illegible]	1.10
12	1.17	1.19	1.21	1.24	1.27	1.30	1.31	1.32	1.35	1.37	1.38	1.40	1.41	1.42	1.42	1.43
13	[illegible]	[illegible]	[illegible]	1.51	1.56	1.60	1.61	1.63	1.66	1.69	1.71	1.74	1.76	1.77	1.79	1.80
14	[illegible]	[illegible]	[illegible]	1.81	1.87	1.92	1.94	[illegible]	[illegible]	[illegible]	[illegible]	2.11	2.14	2.17	2.19	2.21
15	[illegible]	[illegible]	[illegible]	2.14	2.21	2.27	[illegible]	[illegible]	2.39	2.44	2.49	2.53	2.57	2.61	2.64	2.67
16	[illegible]	[illegible]	[illegible]	[illegible]	2.58	2.66	2.69	2.73	[illegible]	2.86	2.92	2.99	[illegible]	3.08	3.13	3.17
17	[illegible]	[illegible]	2.77	2.88	2.98	3.07	3.11	3.16	3.24	3.32	[illegible]	3.47	3.54	3.60	3.66	3.71
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.51	3.57	3.62	3.72	3.82	3.91	3.99	4.08	4.15	4.23	4.29
19	[illegible]	[illegible]	[illegible]	3.72	3.86	3.99	[illegible]	4.11	4.23	4.34	[illegible]	4.56	4.66	4.75	4.84	4.92
20	3.85	3.94	4.02	4.18	4.34	4.49	4.56	4.63	4.77	4.91	5.03	5.16	5.27	5.38	5.49	5.59
21	4.30	4.39	4.49	4.67	4.85	5.02	5.11	5.19	5.35	5.50	5.65	5.79	5.93	6.06	6.19	6.30
22	[illegible]	[illegible]	[illegible]	5.19	[illegible]	[illegible]	5.68	[illegible]	5.96	6.13	[illegible]	6.47	6.62	6.78	6.92	7.06
23	5.26	5.38	5.50	5.73	5.96	6.18	6.29	6.39	6.60	6.80	6.99	7.18	7.36	7.53	7.70	7.86
24	5.77	5.91	6.04	6.30	6.56	6.80	6.92	7.04	7.27	7.50	7.72	7.93	8.13	8.33	8.52	8.70
25	6.32	6.46	6.61	6.90	7.18	7.46	7.59	7.72	7.98	8.23	8.47	8.71	8.94	9.16	9.38	9.58
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.14	8.29	8.43	8.72	[illegible]	9.27	9.53	[illegible]	10.04	10.28	10.51
27	[illegible]	[illegible]	[illegible]	[illegible]	8.52	8.85	9.02	9.18	[illegible]	9.80	[illegible]	10.39	10.68	10.95	11.22	11.48
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.77	[illegible]	[illegible]	10.64	10.97	11.29	11.60	11.91	12.20	12.49
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.56	10.76	11.14	11.51	11.87	12.22	12.57	12.91	13.23	13.55
30	9.38	9.62	9.85	10.30	10.74	11.17	11.38	11.59	12.01	12.41	12.81	13.19	13.57	13.94	14.30	14.64
31	10.07	10.32	10.57	11.06	11.54	12.00	12.23	12.46	12.91	13.35	13.78	14.20	14.61	15.01	15.40	15.79
32	[illegible]	[illegible]	[illegible]	11.84	[illegible]	[illegible]	13.12	[illegible]	[illegible]	[illegible]	[illegible]	15.24	15.69	16.13	16.55	16.97
33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.29	[illegible]	[illegible]	[illegible]	16.33	16.81	17.28	17.74	18.19
34	12.28	12.59	12.89	13.50	14.10	14.68	14.97	15.26	15.82	16.37	16.91	17.44	17.96	18.47	18.97	19.46
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.94	[illegible]	[illegible]	17.45	[illegible]	[illegible]	19.16	19.71	20.25	20.77
36	13.87	14.22	14.57	15.26	15.95	16.62	16.95	17.27	17.92	18.56	19.18	19.79	20.39	20.98	21.56	22.13
37	[illegible]	[illegible]	[illegible]	[illegible]	16.91	[illegible]	[illegible]	[illegible]	19.02	[illegible]	[illegible]	21.02	21.67	22.30	22.92	23.53
38	[illegible]	[illegible]	[illegible]	17.14	17.91	[illegible]	[illegible]	19.42	[illegible]	20.48	[illegible]	[illegible]	[illegible]	23.65	24.31	24.97
39	16.43	16.86	17.28	18.11	18.94	19.74	20.14	20.54	21.32	22.09	22.85	23.59	24.32	25.05	25.75	26.45
40	[illegible]	[illegible]	[illegible]	19.12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.74	24.14	[illegible]	25.71	26.49	27.23	27.97
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.75	[illegible]	[illegible]	[illegible]	27.14	27.95	28.75	29.54
42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.84	27.77	[illegible]	29.47	[illegible]	31.15
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29.19	[illegible]	[illegible]	31.92	32.81
44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	33.57	34.50
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.25	35.25	36.24
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	33.76	[illegible]	35.92	36.98	38.02
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.87	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	38.75	39.85
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.94	[illegible]	[illegible]	38.20	39.39	[illegible]	41.72
49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	42.41	43.63
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	45.58
51	28.89	29.66	30.43	31.95	33.46	34.94	35.68	36.41	37.87	39.31	40.73	42.13	43.52	44.89	46.24	47.58
52	[illegible]	[illegible]	31.69	33.28	34.85	36.41	37.18	37.94	39.46	40.96	42.45	43.91	45.36	46.80	48.21	49.61
53	31.30	32.14	32.98	34.64	36.28	37.90	38.70	[illegible]	[illegible]	42.65	44.20	45.74	47.25	48.75	50.23	51.69
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	53.82
55	33.82	[illegible]	35.63	37.43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	49.49	[illegible]	[illegible]	[illegible]	55.99
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
57	[illegible]	37.41	38.39	40.33	42.26	44.16	45.11	46.05	47.91	49.76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	60.45
58	37.76	38.79	39.80	41.82	43.82	45.80	46.78	47.76	49.70	51.62	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	62.74
59	39.13	[illegible]	41.25	43.34	45.42	47.47	48.49	[illegible]	51.52	53.52	55.50	57.45	[illegible]	61.30	63.20	65.08
60	40.52	41.62	42.71	[illegible]	[illegible]	49.17	50.23	51.29	53.38	55.45	57.50	59.53	61.55	63.54	65.51	67.46

* [illegible]

Table 39.--Log weights for scaling lengths of 4 to 32 feet: density index = 66 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=66

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.05	.07	.09	.11	.12	.13	.15	.15	.16	.16	.17	.18	.18	.18	.18	.18
7	.07	.10	.12	.15	.17	.19	.21	.22	.23	.24	.25	.26	.27	.28	.29	.29
8	.09	.13	.16	.20	.23	.26	.29	.30	.31	.33	.35	.37	.38	.40	.41	.42
9	.11	.16	.21	.26	.30	.34	.37	.39	.41	.44	.47	.49	.51	.54	.55	.57
10	.14	.20	.26	.32	.38	.43	.47	.50	.52	.56	.60	.63	.66	.69	.72	.74
11	.17	.25	.32	.39	.46	.53	.59	.61	.64	.69	.74	.79	.83	.87	.91	.94
12	.20	.30	.39	.47	.56	.63	.71	.74	.78	.85	.91	.97	1.02	1.07	1.12	1.17
13	.24	.35	.46	.56	.66	.75	.84	.89	.93	1.01	1.09	1.16	1.23	1.29	1.35	1.41
14	.28	.41	.53	.66	.77	.88	.99	1.04	1.09	1.19	1.28	1.37	1.46	1.53	1.61	1.68
15	.32	.47	.62	.76	.89	1.02	1.15	1.21	1.27	1.38	1.49	1.60	1.70	1.80	1.89	1.97
16	.36	.54	.71	.87	1.02	1.17	1.32	1.39	1.46	1.59	1.72	1.85	1.97	2.08	2.19	2.29
17	.41	.61	.80	.98	1.16	1.33	1.50	1.58	1.66	1.82	1.97	2.11	2.25	2.38	2.51	2.63
18	[illegible]	[illegible]	[illegible]	1.11	1.31	1.51	1.70	1.79	1.88	2.06	2.23	2.39	2.55	2.70	2.85	2.99
19	.52	.78	1.01	1.24	1.47	1.69	1.90	2.01	2.11	2.31	2.50	2.69	2.87	3.05	3.22	3.38
20	.57	.85	1.12	1.38	1.63	1.88	2.12	2.24	2.35	2.58	2.80	3.01	3.21	3.41	3.61	3.79
21	[illegible]	.94	1.23	1.52	1.81	2.08	2.35	2.48	2.61	2.86	3.10	3.34	3.57	3.80	4.02	4.23
22	.70	1.03	1.36	1.68	1.99	2.29	2.59	2.73	2.88	3.16	3.43	3.70	3.95	4.20	4.45	4.68
23	.76	1.13	1.49	1.84	2.18	2.51	2.84	3.00	3.16	3.47	3.77	4.06	4.35	4.63	4.90	5.17
24	.83	1.23	1.62	2.01	2.38	2.75	3.10	3.28	3.45	3.80	4.13	4.45	4.77	5.08	5.38	5.67
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.99	3.38	3.57	3.76	4.14	4.51	4.85	5.21	5.54	5.88	6.20
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.24	3.67	3.88	4.09	4.49	4.89	5.28	5.66	6.03	6.40	6.75
27	1.05	1.56	2.06	2.55	3.03	3.51	3.97	4.20	4.42	4.86	5.30	5.72	6.14	6.54	6.94	7.32
28	1.13	1.68	2.22	2.75	3.27	3.78	4.28	4.53	4.77	5.25	5.72	6.18	6.63	7.07	7.50	7.92
29	1.21	1.81	2.39	2.96	3.52	4.06	4.60	4.87	5.13	5.65	6.16	6.65	7.14	7.62	8.09	8.55
30	1.30	1.93	2.56	3.17	3.77	4.36	4.94	5.22	5.51	6.06	6.61	7.15	7.67	8.19	8.70	9.19
31	1.39	2.07	2.73	3.39	4.03	4.66	5.28	5.59	5.89	6.49	7.08	7.66	8.23	8.78	9.33	9.86
32	[illegible]	[illegible]	[illegible]	3.61	4.30	4.98	5.64	5.97	6.30	6.94	7.57	8.19	8.80	9.39	9.98	10.55
33	[illegible]	[illegible]	[illegible]	3.85	4.58	5.31	6.01	6.36	6.71	7.40	8.07	8.73	9.38	10.02	10.65	11.27
34	1.67	2.49	3.30	4.09	4.87	5.64	6.39	6.77	7.14	7.87	8.59	9.30	9.99	10.68	11.35	12.01
35	1.77	[illegible]	[illegible]	4.34	5.17	5.98	6.79	7.19	7.58	8.36	9.13	9.88	10.62	11.35	12.07	12.77
36	1.88	2.80	3.70	4.60	5.47	6.34	7.19	7.62	8.03	8.86	9.68	10.48	11.27	12.04	12.81	13.56
37	[illegible]	[illegible]	3.91	4.86	5.79	6.71	7.61	8.06	8.50	9.38	10.24	11.10	11.93	12.76	13.57	14.37
38	[illegible]	[illegible]	4.13	5.13	6.11	7.08	8.04	8.51	8.98	9.91	10.83	11.73	12.62	13.49	14.36	15.20
39	[illegible]	[illegible]	[illegible]	5.41	6.45	7.47	8.48	8.98	9.48	10.46	11.43	12.38	13.32	14.25	15.16	16.06
40	2.32	[illegible]	[illegible]	5.69	6.79	7.87	8.93	9.46	9.98	11.02	12.04	13.05	14.05	15.03	15.99	16.94
41	2.44	[illegible]	4.82	5.99	7.14	8.28	9.40	9.95	10.50	11.60	12.68	13.74	14.79	15.82	16.84	17.85
42	2.56	3.82	5.05	6.29	7.50	8.69	9.87	10.46	11.04	12.19	13.32	14.44	15.55	16.64	17.71	18.78
43	2.69	4.00	5.31	6.59	7.87	9.12	10.36	10.98	11.59	12.79	13.99	15.17	16.33	17.48	18.61	19.73
44	2.81	[illegible]	[illegible]	6.91	8.24	9.56	10.86	11.51	12.15	13.42	14.67	15.91	17.13	18.34	19.53	20.70
45	2.94	4.39	5.82	7.23	8.63	10.01	11.37	12.05	12.72	14.05	15.37	16.66	17.95	19.21	20.47	21.70
46	3.08	4.59	6.08	7.56	9.02	10.47	11.90	12.60	13.31	14.70	16.08	17.44	18.79	20.11	21.43	22.72
47	3.21	4.79	6.35	7.90	9.43	10.94	12.43	13.17	13.91	15.37	16.81	18.23	19.64	21.03	22.41	23.77
48	[illegible]	[illegible]	[illegible]	8.24	9.84	11.42	12.99	13.75	14.52	16.04	17.55	19.04	20.52	21.97	23.41	24.84
49	3.49	5.21	6.91	8.59	10.26	11.91	13.53	14.34	15.15	16.74	18.31	19.87	21.41	22.94	24.44	25.93
50	3.64	5.43	7.20	8.95	10.69	12.41	14.10	14.95	15.79	17.45	19.09	20.72	22.33	23.92	25.49	27.05
51	3.79	5.65	7.49	9.32	11.13	12.92	14.69	15.56	16.44	18.17	19.89	21.58	23.26	24.92	26.56	28.19
52	[illegible]	[illegible]	7.79	9.69	[illegible]	13.44	15.28	16.19	17.10	18.91	20.70	22.46	24.21	25.94	27.66	29.35
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.97	15.89	16.84	17.78	19.66	21.52	23.36	25.18	26.99	28.77	30.54
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.51	16.50	17.49	18.48	20.43	22.36	24.28	26.17	28.05	29.91	31.75
55	4.41	6.58	8.73	10.86	12.97	15.06	17.13	18.16	19.18	21.21	23.22	25.21	27.18	29.14	31.07	32.98
56	[illegible]	[illegible]	[illegible]	11.26	[illegible]	15.62	17.77	18.84	19.90	22.01	24.10	26.17	28.21	30.24	32.25	34.24
57	[illegible]	[illegible]	[illegible]	11.67	[illegible]	[illegible]	18.42	19.53	20.63	22.82	24.99	27.14	29.26	31.37	33.45	35.52
58	[illegible]	[illegible]	9.72	[illegible]	[illegible]	16.79	19.10	20.24	21.38	23.65	25.91	28.12	30.33	32.51	34.66	36.82
59	5.07	7.58	10.06	12.52	14.95	17.37	19.76	20.95	22.14	24.49	26.82	29.13	31.41	33.58	35.93	38.15
60	5.25	7.84	10.40	12.95	15.47	17.97	20.45	21.68	22.91	25.34	27.76	30.15	32.52	34.87	37.20	39.50

* 1KIP=1,[illegible]

Table 40.--Log weights for scaling lengths of 34 to 60 feet: density index = 66 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=66

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.13	[illegible]	[illegible]	.19	.17	.17	.17	.16	.16	.15	.15	.14	.13	.12	.11	.10
7	.29	.29	.29	.29	.29	.29	.29	.28	.28	.27	.27	.26	.25	.24	.23	.22
8	.42	.43	.43	.43	.44	.44	.44	.44	.43	.43	.43	.42	.41	.40	.39	.38
9	.58	.59	.59	.60	.61	.62	.62	.62	.62	.62	.62	.62	.61	.61	.60	.59
10	.77	.78	.78	.80	.82	.83	.83	.84	.84	.85	.85	.85	.85	.85	.85	.84
11	.97	[illegible]	[illegible]	1.03	1.05	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.13	1.14	1.14	1.13
12	1.21	[illegible]	1.25	1.28	1.31	1.34	1.35	1.37	1.39	1.41	1.43	1.44	1.45	1.46	1.47	1.47
13	1.47	1.49	1.52	1.56	1.60	1.64	1.66	1.68	1.71	1.74	1.77	1.79	1.81	1.83	1.84	1.85
14	1.75	1.78	1.81	1.87	1.93	1.98	2.00	2.03	2.07	2.11	2.15	2.18	2.21	2.24	2.26	2.28
15	2.06	2.10	2.13	2.21	2.28	2.34	2.37	2.40	2.46	2.51	2.56	2.61	2.65	2.69	2.72	2.75
16	2.39	2.44	2.48	2.57	2.66	2.74	2.78	2.81	2.89	2.95	3.02	3.07	3.13	3.19	3.22	3.27
17	2.75	2.80	2.86	2.97	3.07	3.17	3.21	3.26	3.34	3.43	3.50	3.58	3.65	3.71	3.77	3.83
18	3.13	3.20	3.26	3.39	3.51	3.62	3.68	3.73	3.84	3.94	4.03	4.12	4.20	4.28	4.36	4.43
19	3.54	3.62	3.69	3.84	3.98	4.11	4.18	4.24	4.36	4.48	4.59	4.70	4.80	4.90	4.99	5.08
20	3.97	4.06	4.15	4.31	4.47	4.63	4.71	4.78	4.92	5.06	5.19	5.32	5.44	5.55	5.66	5.77
21	4.43	4.53	4.63	4.82	5.00	5.18	5.27	5.35	5.52	5.68	5.83	5.97	6.12	6.25	6.38	6.50
22	4.91	5.03	5.14	5.35	5.56	5.76	5.86	5.96	6.14	6.33	6.50	6.67	6.83	6.99	7.14	7.28
23	5.42	5.55	5.67	5.91	6.15	6.37	6.48	6.59	6.81	7.01	7.21	7.40	7.59	7.77	7.94	8.10
24	5.95	6.09	6.23	6.50	6.76	7.02	7.14	7.26	7.50	7.73	7.96	8.17	8.38	8.59	8.78	8.97
25	6.51	6.67	6.82	7.12	7.41	7.69	7.83	7.96	8.23	8.49	8.74	8.98	9.22	9.45	9.67	9.88
26	7.10	7.27	7.43	7.76	8.08	8.39	8.55	8.70	8.99	9.28	9.56	9.83	10.09	10.35	10.60	10.84
27	7.70	7.89	8.07	8.43	8.79	9.13	9.30	9.46	9.79	10.11	10.42	10.72	11.01	11.29	11.57	11.84
28	8.34	8.54	8.74	9.13	9.52	9.89	10.08	10.26	10.62	10.97	11.31	11.64	11.96	12.28	12.58	12.88
29	8.99	9.21	9.43	9.86	10.28	10.69	10.89	11.09	11.48	11.87	12.24	12.60	12.96	13.30	13.64	13.97
30	9.68	9.92	10.15	10.62	11.07	11.52	11.74	11.96	12.38	12.80	13.21	13.60	13.99	14.37	14.74	15.10
31	10.39	[illegible]	10.90	[illegible]	[illegible]	12.38	12.62	12.85	13.31	13.77	14.21	14.64	15.07	15.48	15.88	16.28
32	11.12	[illegible]	11.67	12.21	12.75	13.27	13.53	13.78	14.28	14.77	15.25	15.72	16.18	16.63	17.07	17.50
33	[illegible]	12.17	12.47	13.05	13.63	14.19	14.47	14.74	15.28	15.81	16.33	16.84	17.33	17.82	18.30	18.76
34	12.66	12.98	13.30	13.92	14.54	15.14	15.44	15.73	16.31	16.88	17.44	17.99	18.53	19.05	19.57	20.07
35	13.47	13.81	14.15	14.82	15.48	16.12	16.44	16.76	17.38	17.99	18.59	19.16	19.76	20.32	20.89	21.42
36	[illegible]	[illegible]	[illegible]	15.74	16.44	17.14	17.48	17.91	18.48	19.14	19.78	20.41	21.03	21.64	22.24	22.92
37	15.16	[illegible]	[illegible]	16.69	17.44	18.18	18.54	18.90	19.62	20.32	21.00	21.68	22.34	22.99	23.63	24.26
38	16.04	16.45	16.86	17.67	18.47	19.25	19.64	20.03	20.78	21.53	22.26	22.99	23.69	24.39	25.07	25.75
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20.36	20.77	21.18	21.99	22.78	23.56	24.33	25.08	25.83	26.56	27.28
40	17.88	18.34	18.81	19.72	20.61	21.50	21.93	22.37	23.22	24.07	24.90	25.71	26.52	27.31	28.08	28.85
41	18.84	19.33	19.82	20.78	21.73	22.66	23.13	23.59	24.49	25.39	26.27	27.13	27.99	28.83	29.65	30.47
42	19.82	20.34	20.85	21.87	22.87	23.86	24.35	24.84	25.80	26.74	27.67	28.59	29.50	30.39	31.26	32.13
43	[illegible]	[illegible]	21.92	22.99	[illegible]	[illegible]	25.61	26.12	27.13	28.13	29.12	30.09	31.05	31.99	32.92	33.83
44	21.86	22.44	23.01	24.14	25.25	26.35	26.90	27.44	28.51	29.56	30.60	31.63	32.64	33.63	34.61	35.58
45	[illegible]	[illegible]	24.12	25.31	26.48	27.64	28.22	28.78	29.91	31.02	32.12	33.20	34.27	35.32	36.35	37.37
46	24.00	24.64	25.27	26.52	27.75	28.96	29.57	30.16	31.35	32.52	33.67	34.81	35.93	37.04	38.14	39.21
47	25.11	[illegible]	26.44	27.75	29.06	30.32	30.95	31.58	32.82	34.05	35.26	36.46	37.64	38.81	39.96	41.09
48	26.24	[illegible]	27.63	29.01	30.36	31.70	32.36	33.02	34.33	35.62	36.89	38.15	39.39	40.62	41.83	43.02
49	27.40	28.17	[illegible]	30.29	31.71	33.11	33.81	[illegible]	35.87	37.22	38.56	39.88	41.18	42.47	43.74	44.99
50	28.58	29.35	30.10	31.61	33.09	34.56	35.29	36.01	37.44	38.86	40.26	41.64	43.01	44.36	45.69	47.00
51	[illegible]	[illegible]	31.38	32.95	[illegible]	36.04	36.80	37.55	39.05	40.53	42.00	43.45	44.98	46.29	47.68	49.06
52	31.02	31.85	32.68	34.32	35.94	37.54	38.34	39.13	40.69	42.24	43.77	45.29	46.78	48.26	49.72	51.16
53	[illegible]	[illegible]	34.01	35.72	37.41	39.08	39.91	40.73	42.37	43.99	45.59	47.17	48.73	50.27	51.80	53.31
54	[illegible]	34.47	[illegible]	37.14	38.91	40.65	41.51	42.37	44.08	45.77	47.43	49.08	50.72	52.33	53.92	55.50
55	34.87	[illegible]	[illegible]	[illegible]	[illegible]	42.25	43.15	44.05	45.82	47.58	49.32	51.04	52.74	54.42	56.09	57.74
56	36.20	37.18	38.15	40.08	41.99	43.88	44.82	45.75	47.60	49.43	51.24	53.03	54.81	56.56	58.30	60.01
57	37.56	38.58	39.59	41.59	43.56	45.54	46.52	47.49	49.41	51.32	53.20	55.07	56.91	58.74	60.55	62.34
58	38.94	40.00	41.05	43.13	45.19	47.23	48.25	49.25	51.26	53.24	55.20	57.14	59.06	60.96	62.84	64.70
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48.96	[illegible]	51.06	53.13	55.19	57.23	59.25	61.24	63.22	65.18	67.11
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	57.18	[illegible]	61.39	63.47	65.52	67.56	69.57

* 1KIP=1000 POUNDS

Table 41.--Log weights for scaling lengths of 4 to 32 feet: density index = 68 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=68

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)															
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.05	.07	.09	.11	.12	.14	.15	.16	.16	.17	.18	.18	.19	.19	.19	.19
7	.07	.10	.13	.15	.18	.20	.22	.23	.23	.25	.26	.27	.28	.29	.29	.30
8	.09	.13	.17	.21	.24	.27	.30	.31	.32	.34	.36	.38	.40	.41	.42	.43
9	.12	.17	.22	.26	.31	.35	.39	.40	.42	.45	.48	.51	.53	.55	.57	.59
10	.14	.21	.27	.33	.39	.44	.49	.51	.53	.58	.62	.65	.68	.72	.74	.77
11	.17	.26	.33	.41	.48	.54	.60	.63	.66	.72	.77	.81	.86	.90	.94	.97
12	.21	.31	.40	.49	.57	.65	.73	.77	.80	.87	.94	1.00	1.05	1.11	1.16	1.20
13	.25	.36	.47	.58	.68	.78	.87	.91	.96	1.04	1.12	1.20	1.27	1.33	1.40	1.45
14	.29	.42	.55	.68	.80	.91	1.02	1.07	1.13	1.23	1.32	1.41	1.50	1.58	1.66	1.73
15	.33	.49	.64	.78	.92	1.05	1.18	1.25	1.31	1.43	1.54	1.65	1.75	1.85	1.95	2.03
16	.38	.56	.73	.89	1.05	1.21	1.36	1.43	1.50	1.64	1.77	1.90	2.02	2.14	2.25	2.36
17	.42	.63	.82	1.01	1.20	1.38	1.55	1.63	1.71	1.87	2.03	2.17	2.32	2.45	2.58	2.71
18	.48	.71	.93	1.14	1.35	1.55	1.75	1.84	1.94	2.12	2.29	2.46	2.63	2.79	2.94	3.09
19	.53	.79	1.04	1.28	1.51	1.74	1.96	2.07	2.17	2.38	2.58	2.77	2.96	3.14	3.32	3.48
20	.59	.87	1.15	1.42	1.68	1.94	2.18	2.30	2.42	2.65	2.88	3.10	3.31	3.52	3.72	3.91
21	.65	.97	1.27	1.57	1.86	2.14	2.42	2.55	2.69	2.95	3.20	3.44	3.68	3.91	4.14	4.35
22	.72	1.06	1.40	1.73	2.05	2.36	2.67	2.82	2.96	3.25	3.53	3.81	4.07	4.33	4.58	4.83
23	.78	1.16	1.53	1.89	2.25	2.59	2.93	3.09	3.25	3.57	3.88	4.19	4.48	4.77	5.05	5.32
24	.85	1.27	1.67	2.07	2.45	2.83	3.20	3.38	3.56	3.91	4.25	4.59	4.91	5.23	5.54	5.84
25	.93	1.38	1.82	2.25	2.67	3.08	3.48	3.68	3.88	4.26	4.64	5.00	5.36	5.71	6.05	6.39
26	1.00	1.49	1.97	2.44	2.89	3.34	3.78	4.00	4.21	4.63	5.04	5.44	5.83	6.22	6.59	6.95
27	1.08	1.61	2.13	2.63	3.13	3.61	4.09	4.32	4.55	5.01	5.46	5.89	6.32	6.74	7.15	7.55
28	1.17	1.73	2.29	2.83	3.37	3.89	4.41	4.66	4.91	5.41	5.89	6.37	6.83	7.28	7.73	8.16
29	1.25	1.86	2.46	3.05	3.62	4.19	4.74	5.02	5.29	5.82	6.34	6.86	7.36	7.85	8.33	8.80
30	1.34	1.99	2.63	3.26	3.88	4.49	5.09	5.38	5.67	6.25	6.81	7.36	7.91	8.44	8.96	9.47
31	1.43	2.13	2.82	3.49	4.15	4.80	5.44	5.76	6.07	6.69	7.30	7.89	8.47	9.05	9.61	10.16
32	1.53	2.27	3.00	3.72	4.43	5.13	5.81	6.15	6.49	7.15	7.80	8.44	9.06	9.68	10.28	10.87
33	1.62	2.42	3.20	3.97	4.72	5.46	6.20	6.56	6.91	7.62	8.32	9.00	9.67	10.33	10.98	11.61
34	1.72	2.57	3.40	4.21	5.02	5.81	6.59	6.97	7.35	8.11	8.85	9.58	10.30	11.00	11.69	12.37
35	1.83	2.72	3.60	4.47	5.32	6.17	6.99	7.40	7.81	8.61	9.40	10.18	10.94	11.69	12.43	13.16
36	1.93	2.88	3.81	4.73	5.64	6.53	7.41	7.85	8.28	9.13	9.97	10.80	11.61	12.41	13.20	13.97
37	2.04	3.05	4.03	5.01	5.97	6.91	7.84	8.30	8.76	9.66	10.55	11.43	12.29	13.15	13.98	14.81
38	2.16	3.21	4.26	5.29	6.30	7.30	8.28	8.77	9.25	10.21	11.16	12.08	13.00	13.90	14.79	15.67
39	2.27	3.39	4.49	5.57	6.64	7.70	8.74	9.25	9.76	10.78	11.77	12.76	13.73	14.68	15.62	16.55
40	2.39	3.57	4.72	5.87	6.99	8.11	9.20	9.75	10.29	11.35	12.41	13.45	14.47	15.48	16.48	17.46
41	2.51	3.75	4.97	6.17	7.35	8.53	9.68	10.25	10.82	11.95	13.06	14.15	15.24	16.30	17.35	18.39
42	2.64	3.93	5.21	6.48	7.72	8.96	10.17	10.77	11.37	12.56	13.73	14.88	16.02	17.14	18.25	19.34
43	2.77	4.13	5.47	6.79	8.10	9.40	10.68	11.31	11.94	13.18	14.41	15.63	16.82	18.01	19.17	20.32
44	2.90	4.32	5.73	7.12	8.49	9.85	11.19	11.85	12.51	13.82	15.11	16.39	17.65	18.89	20.12	21.33
45	3.03	4.52	6.00	7.45	8.89	10.31	11.72	12.41	13.10	14.48	15.83	17.17	18.49	19.80	21.09	22.36
46	3.17	4.73	6.27	7.79	9.30	10.78	12.26	12.98	13.71	15.15	16.57	17.97	19.35	20.72	22.08	23.41
47	3.31	4.94	6.55	8.14	9.71	11.27	12.81	13.57	14.33	15.83	17.32	18.79	20.24	21.67	23.09	24.49
48	3.45	5.15	6.83	8.49	10.14	11.76	13.37	14.17	14.96	16.53	18.08	19.62	21.14	22.64	24.12	25.59
49	3.60	5.37	7.12	8.86	10.57	12.27	13.94	14.78	15.60	17.25	18.87	20.47	22.06	23.63	25.18	26.72
50	3.75	5.59	7.42	9.23	11.01	12.78	14.53	15.40	16.26	17.98	19.67	21.35	23.00	24.64	26.26	27.87
51	3.90	5.82	7.72	9.60	11.47	13.31	15.13	16.04	16.94	18.72	20.49	22.24	23.97	25.68	27.37	29.04
52	4.05	6.05	8.03	9.99	11.93	13.84	15.74	16.69	17.62	19.48	21.32	23.14	24.95	26.73	28.49	30.24
53	4.21	6.29	8.35	10.38	12.40	14.39	16.37	17.35	18.32	20.26	22.17	24.07	25.95	27.80	29.64	31.46
54	4.37	6.53	8.67	10.78	12.88	14.95	17.00	18.02	19.04	21.05	23.04	25.02	26.97	28.90	30.81	32.71
55	4.54	6.78	8.99	11.19	13.36	15.52	17.65	18.71	19.76	21.86	23.93	25.98	28.01	30.02	32.01	33.98
56	4.71	7.03	9.33	11.60	13.86	16.10	18.31	19.41	20.50	22.68	24.83	26.96	29.07	31.16	33.23	35.27
57	4.88	7.28	9.67	12.03	14.37	16.69	18.98	20.12	21.26	23.51	25.75	27.96	30.15	32.32	34.47	36.59
58	5.05	7.54	10.01	12.46	14.88	17.29	19.67	20.85	22.03	24.36	26.68	28.97	31.25	33.50	35.73	37.94
59	5.23	7.81	10.36	12.90	15.41	17.90	20.36	21.59	22.81	25.23	27.63	30.01	32.37	34.70	37.01	39.31
60	5.41	8.07	10.72	13.34	15.96	18.52	21.07	22.34	23.60	26.11	28.60	31.06	33.51	35.93	38.32	40.70

* 1KIP=1000 POUNDS

Table 42.--Log weights for scaling lengths of 34 to 60 feet: density index = 68 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=68

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.19	.19	.19	.18	.18	.18	.17	.17	.16	.16	.15	.14	.13	.12	.12	.11
7	.30	.30	.30	.30	.31	.30	.29	.29	.29	.28	.27	.27	.26	.25	.24	.23
8	.44	.44	.44	.45	.45	.45	.45	.45	.45	.44	.44	.43	.42	.42	.41	.40
9	.60	.61	.61	.62	.63	.64	.64	.64	.64	.64	.64	.64	.63	.62	.62	.61
10	.79	.80	.81	.83	.84	.85	.86	.86	.87	.87	.88	.88	.88	.88	.87	.87
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.17	1.17	1.17
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.41	[illegible]	1.45	1.47	1.48	[illegible]	1.51	1.51	1.52
13	1.51	1.54	1.56	1.61	1.65	1.69	1.71	1.73	1.76	1.79	1.82	1.85	1.87	1.88	1.90	1.91
14	1.80	1.83	1.87	1.93	1.98	2.04	2.06	2.09	2.13	2.17	2.21	[illegible]	[illegible]	2.31	[illegible]	2.35
15	2.12	2.16	2.20	2.28	2.35	2.41	2.45	2.48	2.54	2.59	2.64	2.69	2.73	2.77	2.80	2.84
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.11	3.17	3.22	3.27	[illegible]	3.37
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.94
18	3.23	3.29	3.36	3.49	3.61	3.73	3.79	3.85	3.95	4.05	4.15	4.24	4.33	4.41	4.49	4.56
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.94
21	4.56	4.67	4.77	4.96	5.15	5.34	5.43	5.51	5.68	5.85	6.00	6.16	6.30	6.44	6.57	6.70
22	5.06	5.18	5.29	5.51	5.73	5.94	6.04	6.14	6.33	6.52	6.70	6.87	7.04	7.20	7.35	7.50
23	5.59	5.71	5.84	6.09	6.33	6.57	6.68	6.79	7.01	7.22	7.43	7.63	7.82	8.00	8.18	8.35
24	6.13	6.28	6.42	6.70	6.97	7.23	7.36	7.48	7.73	7.97	8.20	8.42	8.64	8.85	9.05	9.24
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.18
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.13	[illegible]	[illegible]	[illegible]	11.17
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.64	[illegible]	12.28
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.90	[illegible]	[illegible]	12.97	13.27
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.71	[illegible]	14.39
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.56
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.77
32	11.46	11.74	12.03	12.58	13.13	13.67	13.93	14.20	14.71	15.22	15.71	16.20	16.67	17.13	17.59	18.03
33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20.68
35	13.87	14.23	14.58	15.27	15.95	16.61	16.94	17.26	17.91	18.54	19.16	19.76	20.36	20.94	21.51	22.07
36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.67	[illegible]	[illegible]	[illegible]	[illegible]
37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
38	16.53	16.95	17.37	18.21	19.03	19.84	20.24	20.63	21.41	22.18	22.94	23.68	24.41	25.13	25.83	26.53
39	17.46	17.91	18.36	19.25	20.12	20.98	21.40	21.82	22.65	23.47	24.28	25.07	25.85	26.61	27.36	28.10
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28.13	[illegible]	[illegible]
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.39
42	20.42	20.96	21.49	22.53	23.57	24.59	25.09	25.59	26.58	27.55	28.51	29.46	30.39	31.31	32.21	33.10
43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.86
44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	36.66
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.96	[illegible]	34.21	[illegible]	36.39	37.45	38.51
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	38.17	[illegible]	40.46
47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41.17	42.74
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44.32
49	28.23	28.98	29.73	31.21	32.67	34.12	34.83	35.55	36.96	38.35	39.73	41.09	42.43	43.75	45.06	46.35
50	29.45	30.24	31.02	32.56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	40.04	[illegible]	[illegible]	44.31	45.76	47.07	48.43
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	49.13	50.55
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	57.18
55	35.93	36.90	37.86	39.77	41.66	43.53	44.46	45.38	47.21	49.02	50.81	52.59	54.34	56.07	57.79	59.48
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
58	40.13	41.21	42.29	44.44	46.56	48.66	49.71	50.75	52.81	54.85	56.87	58.87	60.85	62.81	64.75	66.66
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	71.68

* [illegible]

Table 43.--Log weights for scaling lengths of 4 to 32 feet: density index = 70 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=70

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET) 4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.05	.07	.09	.11	.13	.14	.15	.16	.17	.17	.18	.19	.19	.19	.20	.20
7	.07	.10	.13	.16	.18	.20	.22	.23	.24	.26	.27	.28	.29	.30	.30	.31
8	.09	.14	.17	.21	.24	.28	.30	.32	.33	.35	.37	.39	.41	.42	.43	.44
9	.12	.17	.22	.27	.32	.36	.40	.42	.43	.47	.49	.52	.55	.57	.59	.60
10	.15	.22	.28	.34	.40	.45	.50	.53	.55	.59	.63	.67	.71	.74	.76	.79
11	.18	.26	.34	.42	.49	.56	.62	.65	.68	.74	.79	.84	.88	.93	.97	1.00
12	.22	.32	.41	.50	.59	.67	.75	.79	.83	.90	.96	1.03	1.08	1.14	1.19	1.24
13	.25	.37	.49	.60	.70	.80	.89	.94	.99	1.07	1.15	1.23	1.30	1.37	1.44	1.50
14	.29	.43	.57	.70	.82	.94	1.05	1.11	1.16	1.26	1.36	1.45	1.54	1.63	1.71	1.78
15	.34	.50	.65	.80	.95	1.09	1.22	1.28	1.35	1.47	1.59	1.70	1.80	1.91	2.00	2.09
16	.39	.57	.75	.92	1.09	1.25	1.40	1.47	1.55	1.69	1.83	1.96	2.08	2.20	2.32	2.43
17	.44	.65	.85	1.04	1.23	1.42	1.59	1.68	1.76	1.93	2.09	2.24	2.38	2.53	2.66	2.79
18	.49	.73	.95	1.17	1.39	1.60	1.80	1.90	1.99	2.18	2.36	2.54	2.71	2.87	3.03	3.18
19	.55	.81	1.07	1.31	1.56	1.79	2.02	2.13	2.24	2.45	2.65	2.85	3.05	3.23	3.41	3.59
20	.61	.90	1.18	1.46	1.73	1.99	2.25	2.37	2.49	2.73	2.97	3.19	3.41	3.62	3.82	4.02
21	.67	.99	1.31	1.62	1.91	2.21	2.49	2.63	2.76	3.03	3.29	3.55	3.79	4.03	4.26	4.48
22	.74	1.09	1.44	1.78	2.11	2.43	2.74	2.90	3.05	3.35	3.64	3.92	4.19	4.46	4.72	4.97
23	.81	1.20	1.58	1.95	2.31	2.67	3.01	3.18	3.35	3.68	4.00	4.31	4.62	4.91	5.20	5.48
24	.88	1.30	1.72	2.13	2.52	2.91	3.29	3.48	3.66	4.03	4.38	4.72	5.06	5.38	5.70	6.01
25	.95	1.42	1.87	2.31	2.75	3.17	3.59	3.79	3.99	4.39	4.77	5.15	5.52	5.88	6.23	6.57
26	1.03	1.53	2.03	2.51	2.98	3.44	3.89	4.11	4.33	4.76	5.19	5.60	6.00	6.40	6.78	7.16
27	1.12	1.66	2.19	2.71	3.22	3.72	4.21	4.45	4.69	5.16	5.62	6.07	6.51	6.94	7.36	7.77
28	1.20	1.78	2.36	2.92	3.47	4.01	4.54	4.80	5.06	5.57	6.07	6.55	7.03	7.50	7.96	8.40
29	1.29	1.92	2.53	3.14	3.72	4.31	4.88	5.16	5.44	5.99	6.53	7.06	7.58	8.08	8.58	9.06
30	1.38	2.05	2.71	3.36	4.00	4.62	5.24	5.54	5.84	6.43	7.01	7.58	8.14	8.69	9.22	9.75
31	1.47	2.19	2.90	3.59	4.28	4.95	5.60	5.93	6.25	6.89	7.51	8.12	8.72	9.31	9.89	10.46
32	1.57	2.34	3.09	3.83	4.56	5.28	5.98	6.33	6.68	7.36	8.03	8.68	9.33	9.96	10.58	11.19
33	1.67	2.49	3.29	4.08	4.86	5.62	6.38	75	7.12	7.84	8.56	9.26	9.95	10.63	11.30	11.95
34	1.78	2.64	3.50	4.34	5.17	5.98	6.78	.18	7.57	8.35	9.11	9.86	10.60	11.32	12.04	12.74
35	1.88	2.80	3.71	4.60	5.48	6.35	7.20	7.62	8.04	8.87	9.68	10.48	11.26	12.04	12.80	13.55
36	1.99	2.97	3.93	4.87	5.81	6.72	7.63	8.08	8.52	9.40	10.26	11.11	11.95	12.77	13.58	14.38
37	2.11	3.14	4.15	5.15	6.14	7.11	8.07	8.55	9.02	9.95	10.86	11.77	12.66	13.53	14.39	15.24
38	2.22	3.31	4.38	5.44	6.48	7.51	8.53	9.03	9.53	10.51	11.48	12.44	13.38	14.31	15.23	16.13
39	2.34	3.49	4.62	5.74	6.84	7.92	8.99	9.52	10.05	11.09	12.12	13.13	14.13	15.11	16.08	17.04
40	2.46	3.67	4.86	6.04	7.20	8.34	9.47	10.03	10.59	11.69	12.77	13.84	14.90	15.94	16.96	17.97
41	2.59	3.86	5.11	6.35	7.57	8.78	9.97	10.56	11.14	12.30	13.44	14.57	15.68	16.78	17.86	18.93
42	2.72	4.05	5.37	6.67	7.95	9.22	10.47	11.09	11.71	12.93	14.13	15.32	16.49	17.65	18.79	19.91
43	2.85	4.25	5.63	6.99	8.34	9.67	10.99	11.64	12.29	13.57	14.84	16.09	17.32	18.54	19.74	20.92
44	2.98	4.45	5.90	7.33	8.74	10.14	11.52	12.20	12.88	14.23	15.56	16.87	18.17	19.45	20.71	21.96
45	3.12	4.66	6.17	7.67	9.15	10.61	12.06	12.78	13.49	14.90	16.30	17.67	19.04	20.38	21.71	23.02
46	3.26	4.87	6.45	8.02	9.57	11.10	12.62	13.37	14.11	15.59	17.05	18.50	19.92	21.33	22.72	24.10
47	3.41	5.08	6.74	8.38	10.00	11.60	13.18	13.97	14.75	16.30	17.83	19.34	20.83	22.31	23.77	25.21
48	3.55	5.30	7.03	8.74	10.43	12.11	13.76	14.58	15.40	17.02	18.62	20.20	21.76	23.31	24.83	26.34
49	3.70	5.52	7.32	9.12	10.88	12.63	14.36	15.21	16.06	17.75	19.42	21.08	22.71	24.33	25.92	27.50
50	3.86	5.76	7.64	9.50	11.34	13.16	14.96	15.85	16.74	18.51	20.25	21.97	23.68	25.37	27.04	28.69
51	4.01	5.99	7.95	9.89	11.80	13.70	15.58	16.51	17.43	19.27	21.09	22.89	24.67	26.43	28.17	29.89
52	4.17	6.23	8.27	10.28	12.28	14.25	16.21	17.18	18.14	20.06	21.95	23.83	25.68	27.52	29.33	31.13
53	4.34	6.47	8.59	10.69	12.76	14.81	16.85	17.86	18.86	20.85	22.83	24.78	26.71	28.62	30.51	32.39
54	4.50	6.72	8.92	11.10	13.26	15.39	17.50	18.55	19.60	21.67	23.72	25.75	27.76	29.75	31.72	33.67
55	4.67	6.98	9.26	11.52	13.76	15.97	18.17	19.26	20.34	22.50	24.63	26.74	28.83	30.90	32.95	34.98
56	4.84	7.23	9.60	11.95	14.27	16.57	18.85	19.98	21.11	23.34	25.56	27.75	29.92	32.07	34.20	36.31
57	5.02	7.50	9.95	12.38	14.79	17.18	19.54	20.72	21.88	24.20	26.50	28.78	31.03	33.27	35.48	37.67
58	5.20	7.76	10.31	12.82	15.32	17.79	20.25	21.46	22.67	25.08	27.47	29.83	32.17	34.48	36.78	39.05
59	5.38	8.03	10.67	13.28	15.86	18.42	20.96	22.22	23.48	25.97	28.44	30.89	33.32	35.72	38.10	40.46
60	5.56	8.31	11.03	13.73	16.41	19.06	21.69	23.00	24.30	26.88	29.44	31.98	34.49	36.98	39.45	41.89

* 1KIP=1000 POUNDS

Table 44.--Log weights for scaling lengths of 34 to 60 feet: density index = 70 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=70

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)															
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.19	.19	.19	.19	.19	.18	.18	.17	.17	.16	.15	.15	.14	.13	.12	.11
7	.31	.31	.31	.31	.31	.31	.30	.30	.30	.29	.28	.27	.27	.26	.25	.24
8	.45	.45	.46	.46	.46	.46	.46	.46	.46	.46	.45	.44	.44	.43	.42	.41
9	.62	.62	.63	.64	.65	.65	.66	.66	.66	.66	.66	.65	.65	.64	.63	.63
10	.81	.82	.83	.85	.86	.88	.88	.89	.89	.90	.90	.90	.90	.90	.90	.89
11	1.03	1.05	1.06	1.09	1.11	1.13	1.14	1.15	1.17	1.18	1.19	1.20	1.20	1.20	1.20	1.20
12	1.28	1.30	1.32	1.36	1.39	1.42	1.44	1.45	1.47	1.49	1.51	1.53	1.54	1.55	1.56	1.56
13	1.55	1.58	1.61	1.66	1.70	1.74	1.76	1.79	1.82	1.85	1.88	1.90	1.92	1.94	1.95	1.97
14	1.85	1.89	1.92	1.98	2.04	2.10	2.12	2.15	2.20	2.24	2.28	2.31	2.34	2.37	2.40	2.42
15	2.18	2.22	2.26	2.34	2.42	2.48	2.52	2.55	2.61	2.67	2.72	2.77	2.81	2.85	2.89	2.92
16	2.53	2.59	2.63	2.73	2.82	2.90	2.95	2.98	3.06	3.13	3.20	3.26	3.32	3.37	3.42	3.46
17	2.91	2.97	3.03	3.15	3.25	3.36	3.41	3.45	3.55	3.63	3.72	3.79	3.87	3.93	4.00	4.06
18	3.32	3.39	3.46	3.59	3.72	3.84	3.90	3.96	4.07	4.17	4.27	4.37	4.46	4.54	4.62	4.70
19	3.75	3.83	3.91	4.07	4.22	4.36	4.43	4.50	4.63	4.75	4.87	4.98	5.09	5.19	5.29	5.38
20	4.21	4.31	4.40	4.57	4.75	4.91	4.99	5.07	5.22	5.37	5.51	5.64	5.77	5.89	6.01	6.12
21	4.70	4.80	4.91	5.11	5.31	5.49	5.59	5.68	5.85	6.02	6.18	6.34	6.49	6.63	6.77	6.90
22	5.21	5.33	5.45	5.68	5.90	6.11	6.21	6.32	6.52	6.71	6.89	7.07	7.25	7.41	7.57	7.72
23	5.75	5.88	6.01	6.27	6.52	6.76	6.88	6.99	7.22	7.44	7.65	7.85	8.05	8.24	8.42	8.60
24	6.32	6.46	6.61	6.89	7.17	7.44	7.57	7.70	7.96	8.20	8.44	8.67	8.89	9.11	9.31	9.52
25	6.91	7.07	7.23	7.55	7.86	8.16	8.30	8.45	8.73	9.00	9.27	9.53	9.78	10.02	10.26	10.48
26	7.52	7.71	7.88	8.23	8.57	8.90	9.06	9.22	9.54	9.84	10.14	10.43	10.71	10.98	11.24	11.50
27	8.17	8.37	8.56	8.94	9.32	9.68	9.86	10.04	10.38	10.72	11.05	11.37	11.68	11.98	12.27	12.56
28	8.84	9.06	9.27	9.69	10.11	10.49	10.69	10.88	11.26	11.63	11.99	12.35	12.69	13.02	13.35	13.66
29	9.54	9.77	[illegible]	10.46	10.91	11.34	11.55	11.77	12.18	12.59	12.98	13.37	13.74	14.11	14.47	14.82
30	10.26	10.52	10.77	11.26	11.75	12.22	12.45	12.68	13.13	13.57	14.01	14.43	14.84	15.24	15.64	16.02
31	11.01	11.29	11.56	12.09	12.62	13.13	13.38	13.63	14.12	14.60	15.07	15.53	15.98	16.42	16.85	17.27
32	11.79	12.09	12.38	12.95	13.52	14.07	14.34	14.61	15.15	15.67	16.17	16.67	17.16	17.64	18.10	18.56
33	12.60	12.91	13.23	13.85	14.45	15.05	15.34	15.63	16.21	16.77	17.32	17.86	18.38	18.90	19.41	19.90
34	13.43	13.77	14.10	14.77	15.42	16.06	16.37	16.69	17.30	17.91	18.50	19.08	19.65	20.21	20.75	21.29
35	14.28	14.65	15.01	15.72	16.43	17.10	17.44	17.77	18.43	19.08	19.72	20.34	20.96	21.56	22.15	22.72
36	15.17	15.55	15.94	16.70	17.44	18.17	18.54	18.89	19.60	20.30	20.98	21.65	22.30	22.95	23.58	24.20
37	16.08	16.49	16.90	17.71	18.50	19.28	19.67	20.05	20.80	21.55	22.28	22.99	23.70	24.39	25.07	25.73
38	17.01	17.45	17.89	18.74	19.59	20.42	20.83	21.24	22.04	22.84	23.61	24.38	25.13	25.87	26.59	27.31
39	17.98	18.44	18.90	19.81	20.71	21.59	22.03	22.46	23.32	24.16	24.99	25.80	26.61	27.39	28.17	28.93
40	18.96	19.46	19.95	20.91	21.86	22.80	23.26	23.72	24.63	25.52	26.40	27.27	28.12	28.96	29.79	30.60
41	19.98	20.50	21.02	22.04	23.05	24.04	24.53	25.01	25.98	26.93	27.86	28.78	29.68	30.57	31.45	32.31
42	21.02	21.57	22.12	23.20	24.26	25.31	25.83	26.34	27.36	28.36	29.35	30.33	31.28	32.23	33.16	34.07
43	22.09	22.67	23.25	24.38	25.51	26.61	27.16	27.70	28.78	29.84	30.88	31.91	32.93	33.93	34.91	35.88
44	23.19	23.80	24.40	25.60	26.78	27.95	28.53	29.10	30.23	31.35	32.45	33.54	34.61	35.67	36.71	37.74
45	24.31	24.95	25.59	26.85	28.09	29.32	29.93	30.53	31.72	32.90	34.07	35.21	36.34	37.46	38.56	39.64
46	25.46	26.13	26.80	28.12	29.43	30.72	31.36	31.99	33.25	34.49	35.71	36.92	38.11	39.29	40.45	41.59
47	26.63	27.34	28.04	29.43	30.80	32.15	32.82	33.49	34.81	36.12	37.40	38.67	39.92	41.16	42.38	43.58
48	27.83	28.57	29.31	30.76	32.20	33.62	34.33	35.02	36.41	37.78	39.13	40.46	41.78	43.08	44.36	45.63
49	29.06	29.83	30.60	32.13	33.63	35.12	35.86	36.59	38.04	39.48	40.99	42.29	43.68	45.04	46.39	47.72
50	30.32	31.12	31.93	33.52	35.11	36.65	37.43	38.19	39.71	41.22	42.70	44.17	45.61	47.04	48.46	49.85
51	31.60	32.44	33.28	34.95	36.59	38.22	39.03	39.83	41.42	42.99	44.54	46.08	47.59	49.09	50.57	52.04
52	32.90	33.79	34.66	36.40	38.12	39.82	40.66	41.50	43.16	44.80	46.43	48.03	49.62	51.19	52.73	54.26
53	34.24	35.16	36.07	37.88	39.68	41.45	42.33	43.20	44.94	46.65	48.35	50.02	51.68	53.32	54.94	56.54
54	35.60	36.56	37.51	39.40	41.26	43.11	44.03	44.94	46.75	48.54	50.31	52.06	53.79	55.50	57.19	58.86
55	36.99	37.98	38.97	40.94	42.88	44.81	45.76	46.71	48.60	50.46	52.31	54.13	55.94	57.72	59.49	61.23
56	38.40	39.43	40.47	42.51	44.54	46.54	47.53	48.52	50.48	52.43	54.35	56.25	58.13	59.99	61.83	63.65
57	39.84	40.92	41.99	44.11	46.22	48.30	49.33	50.36	52.40	54.43	56.43	58.40	60.36	62.30	64.22	66.11
58	41.31	42.42	43.54	45.74	47.93	50.10	51.17	52.24	54.36	56.46	58.54	60.60	62.64	64.65	66.65	68.62
59	42.80	43.96	45.11	47.40	49.67	51.92	53.04	54.15	56.35	59.54	60.70	62.84	64.96	67.05	69.13	71.18
60	44.32	45.52	46.72	49.15	51.45	53.78	54.94	56.09	58.38	60.65	62.89	65.11	67.31	69.49	71.65	73.79

* 1KIP=1000 POUNDS

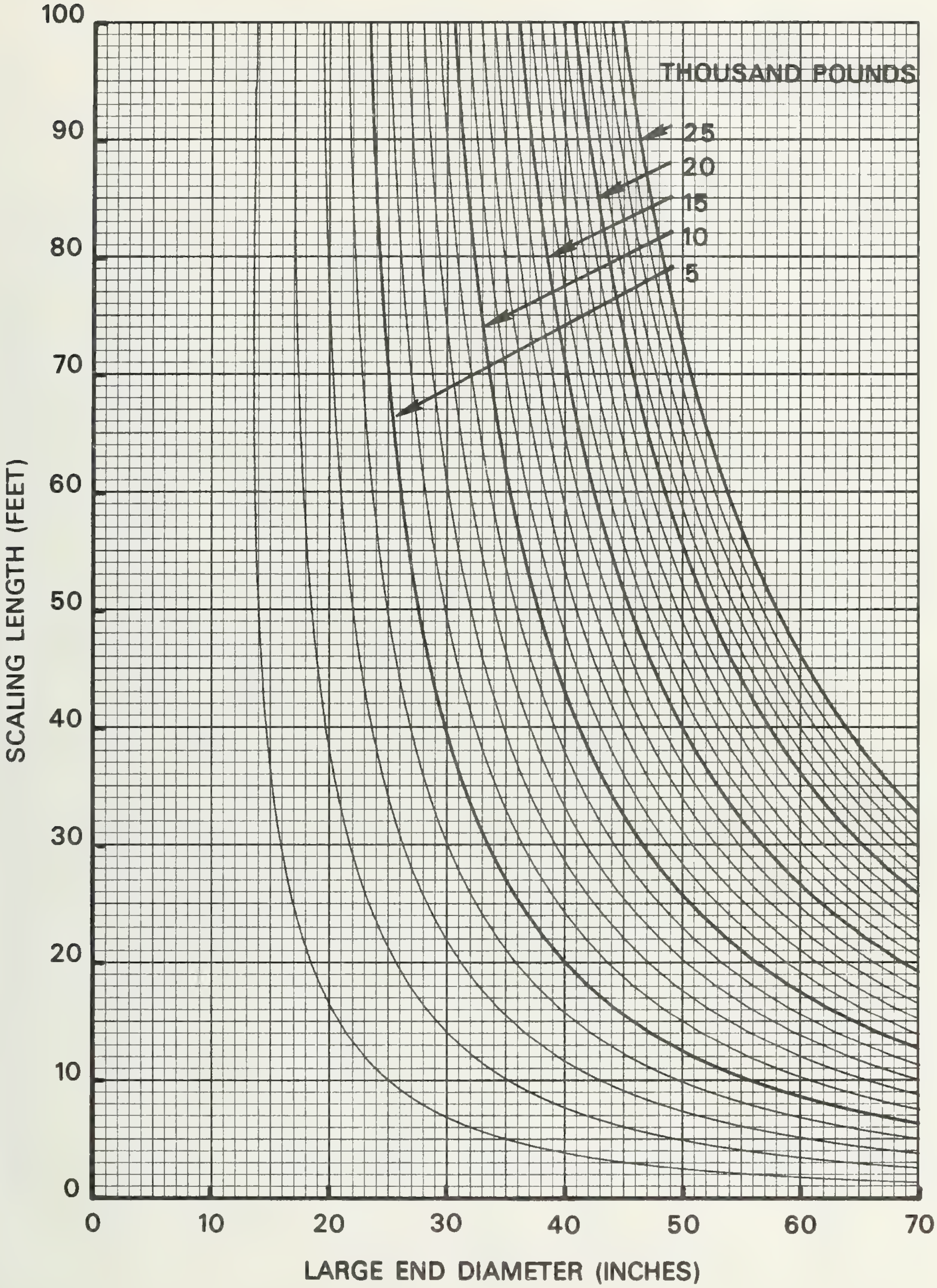


Figure 5.—Scaling length versus large end diameter for various log weights. Density index = 30 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

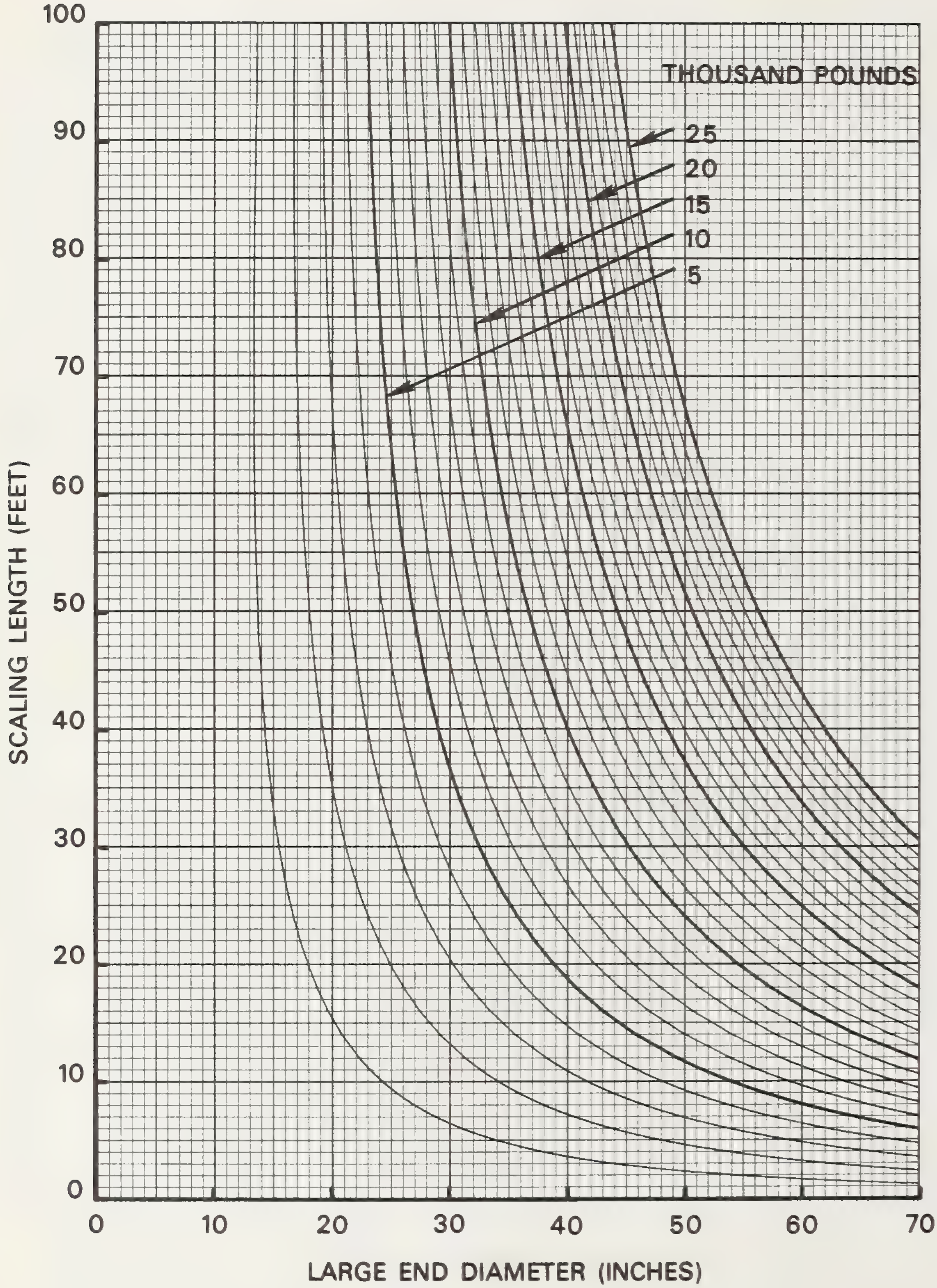


Figure 6.—Scaling length versus large end diameter for various log weights. Density index = 32 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

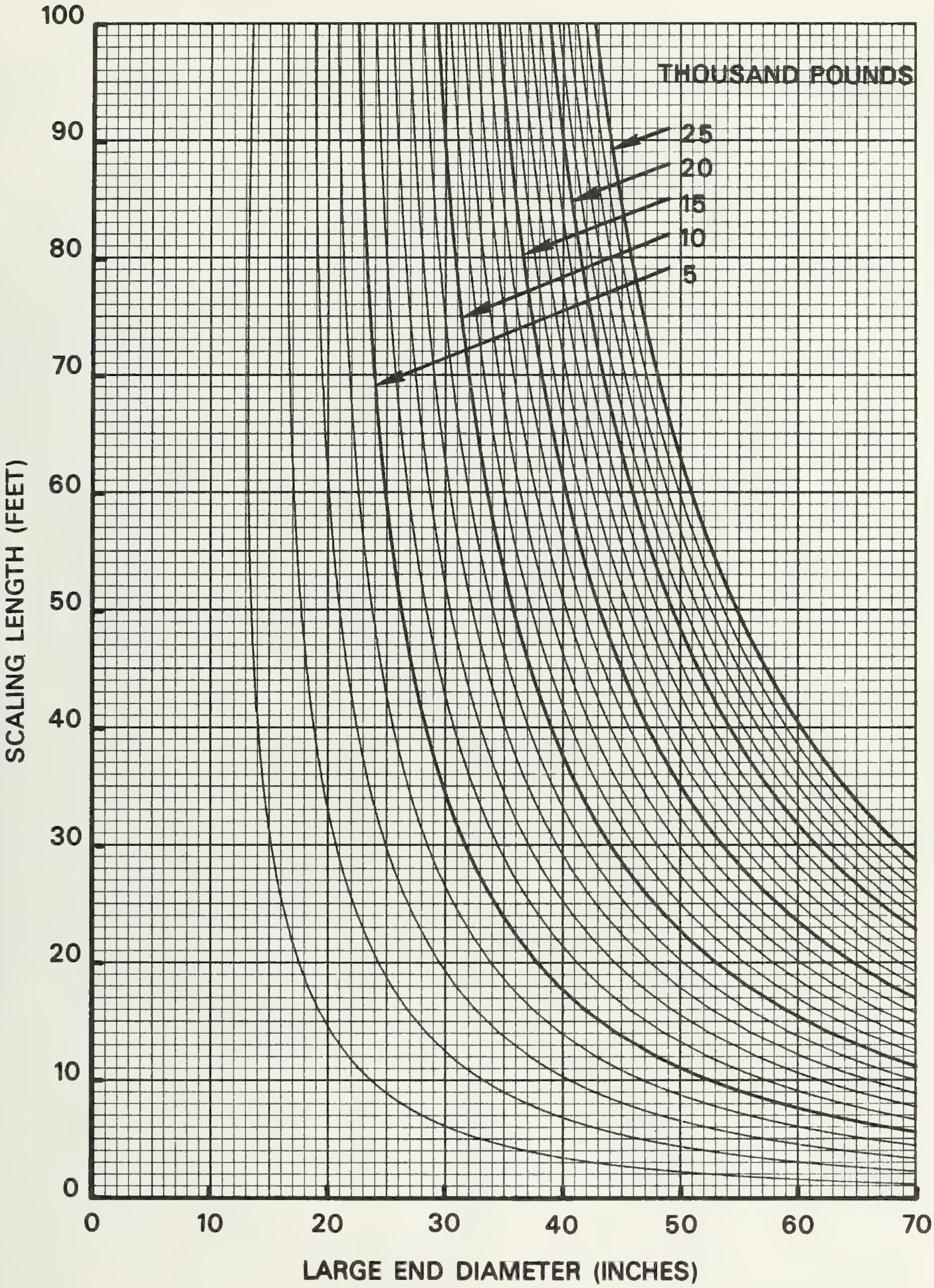


Figure 7.—Scaling length versus large end diameter for various log weights. Density index = 34 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

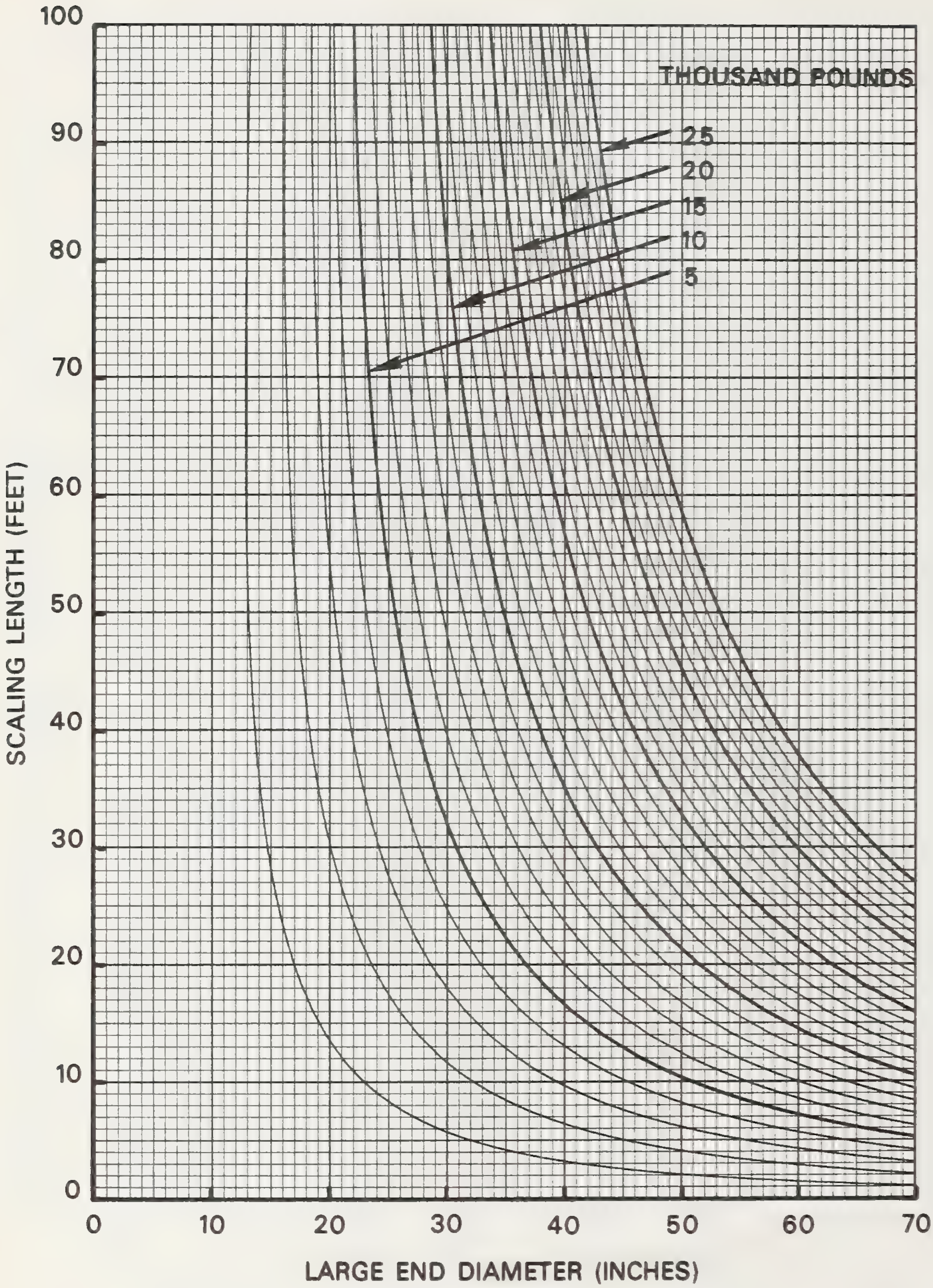


Figure 8.—Scaling length versus large end diameter for various log weights. Density index = 36 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

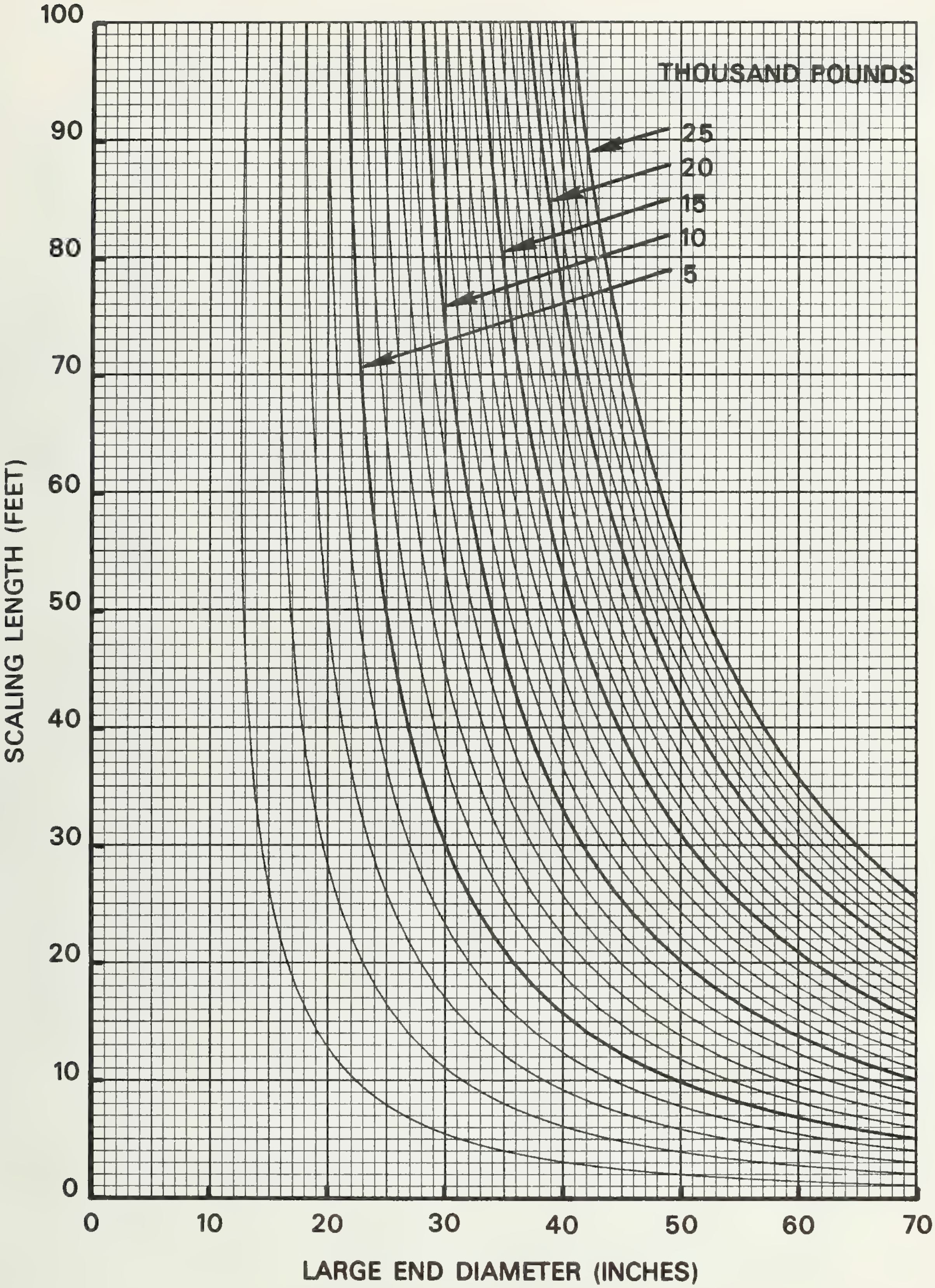


Figure 9.—Scaling length versus large end diameter for various log weights. Density index = 38 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

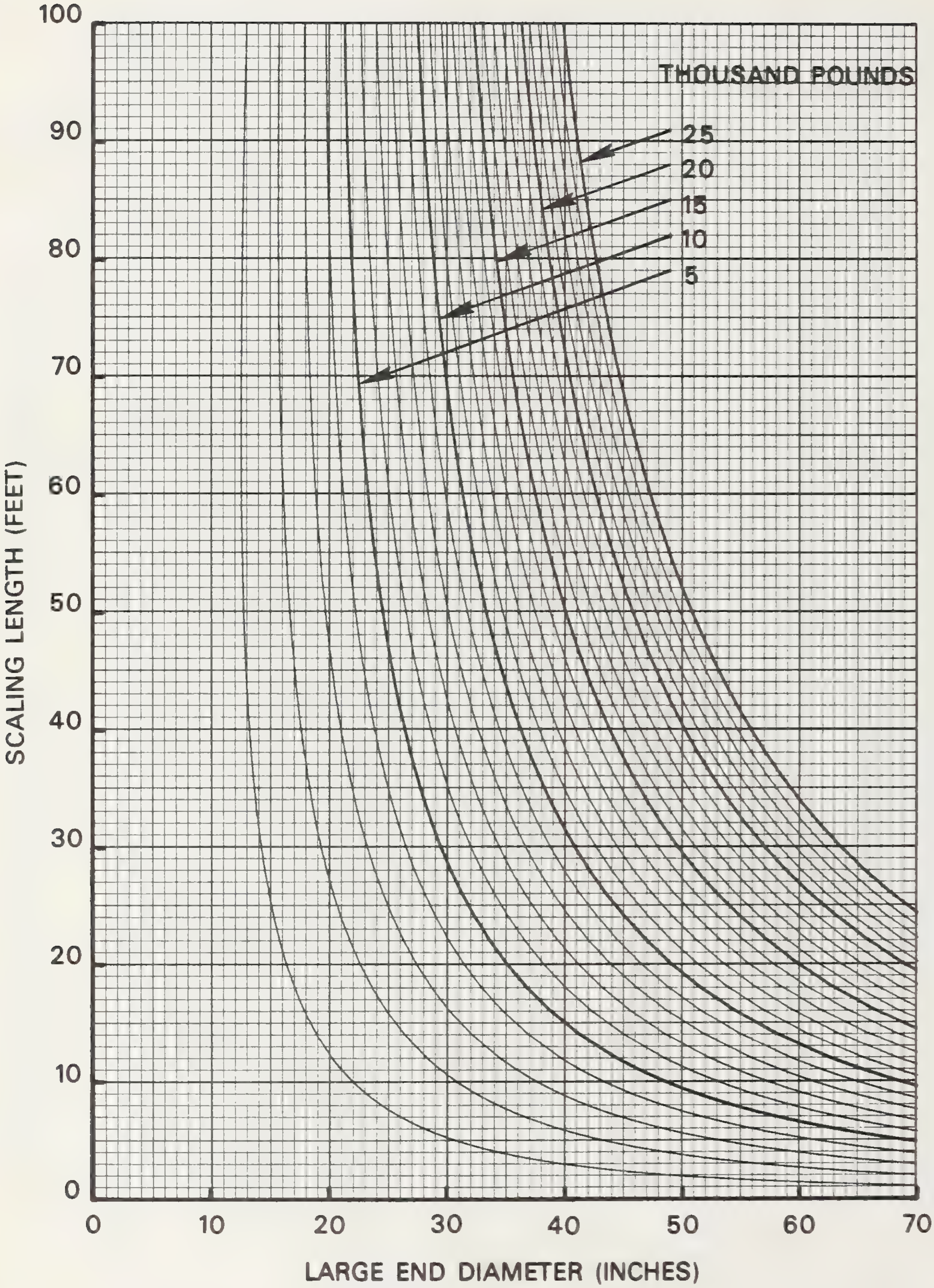


Figure 10.—Scaling length versus large end diameter for various log weights. Density index = 40 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

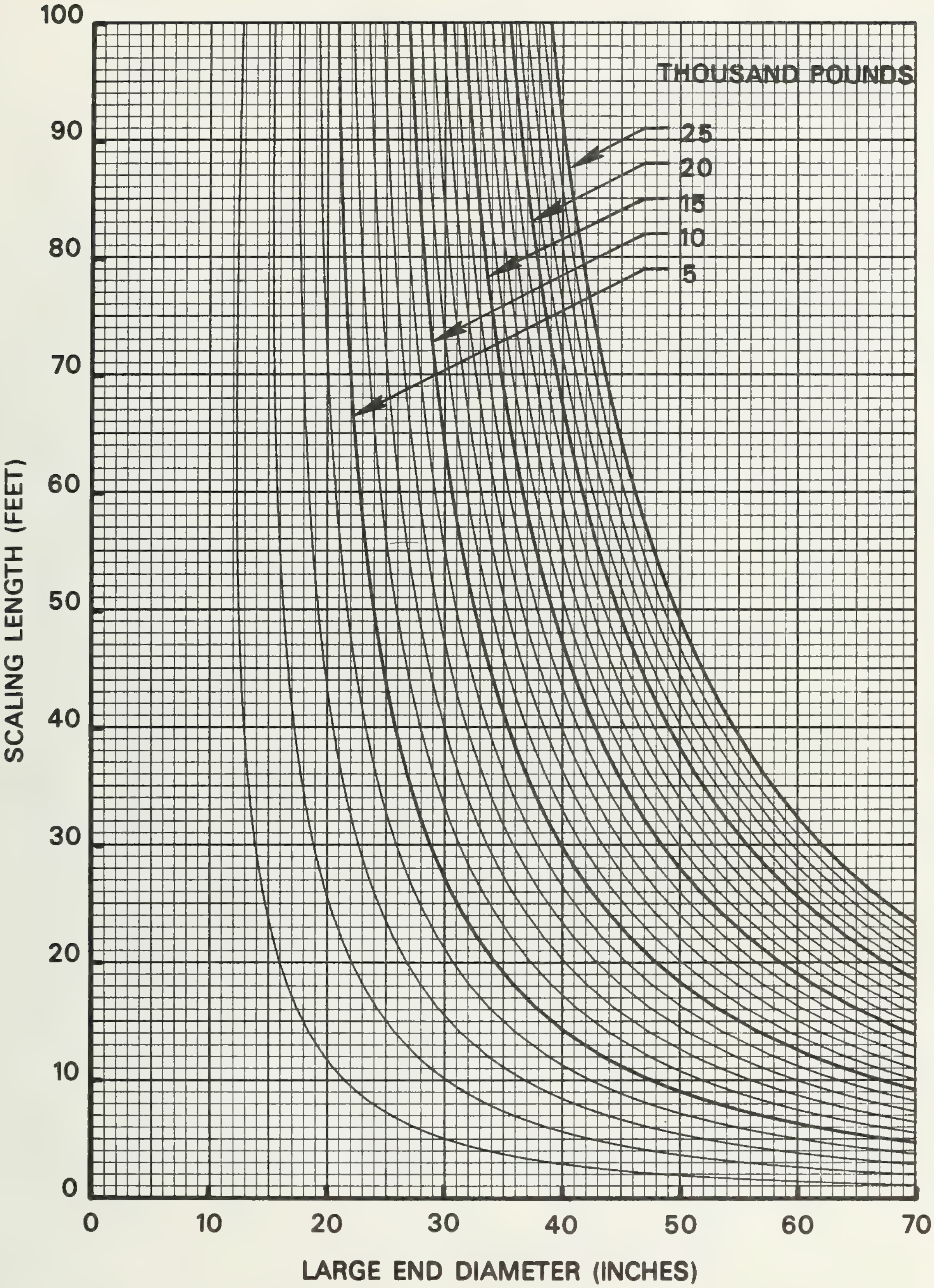


Figure 11.—Scaling length versus large end diameter for various log weights. Density index = 42 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

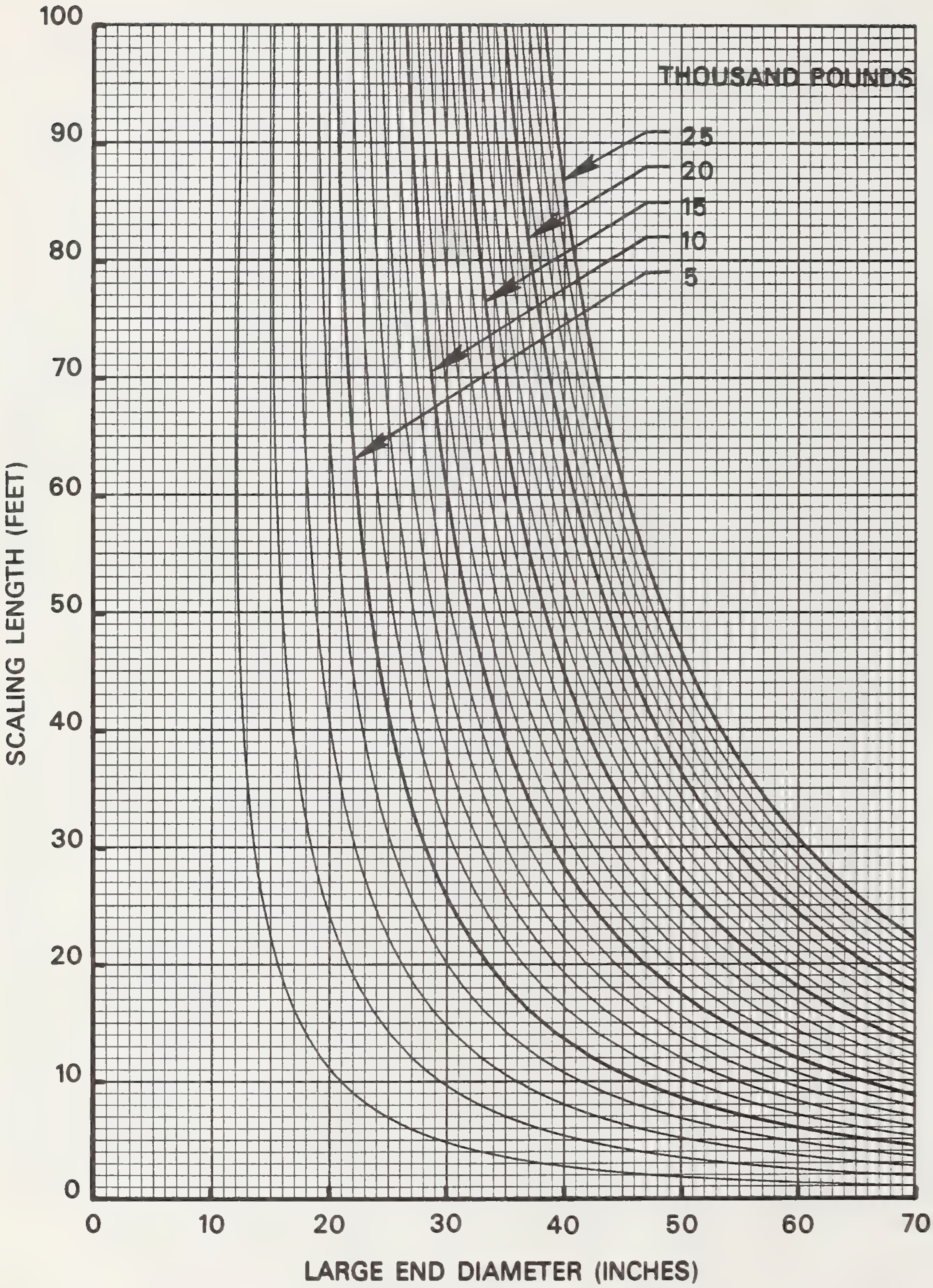


Figure 12.—Scaling length versus large end diameter for various log weights. Density index = 44 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

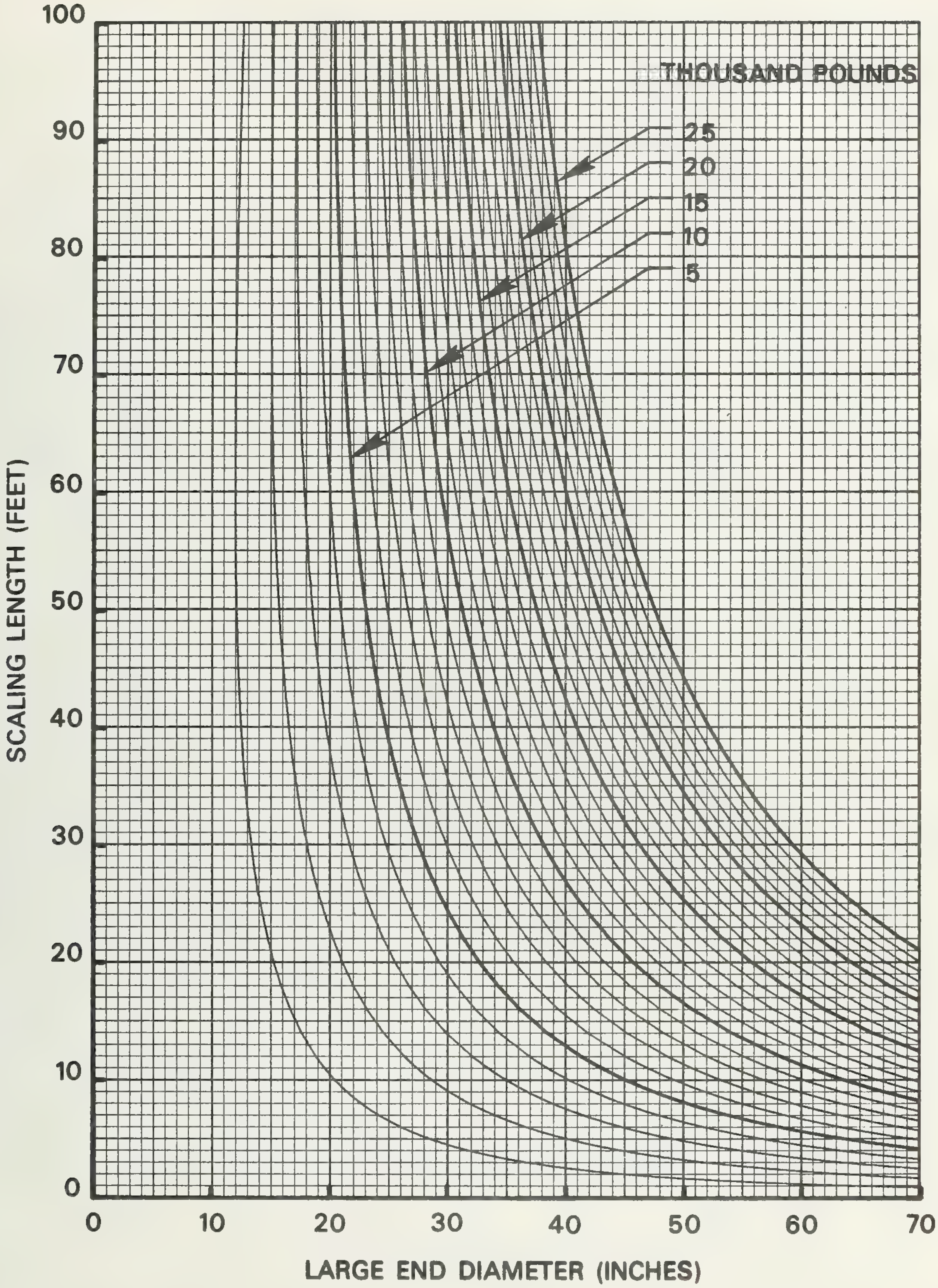


Figure 13.—Scaling length versus large end diameter for various log weights. Density index = 46 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

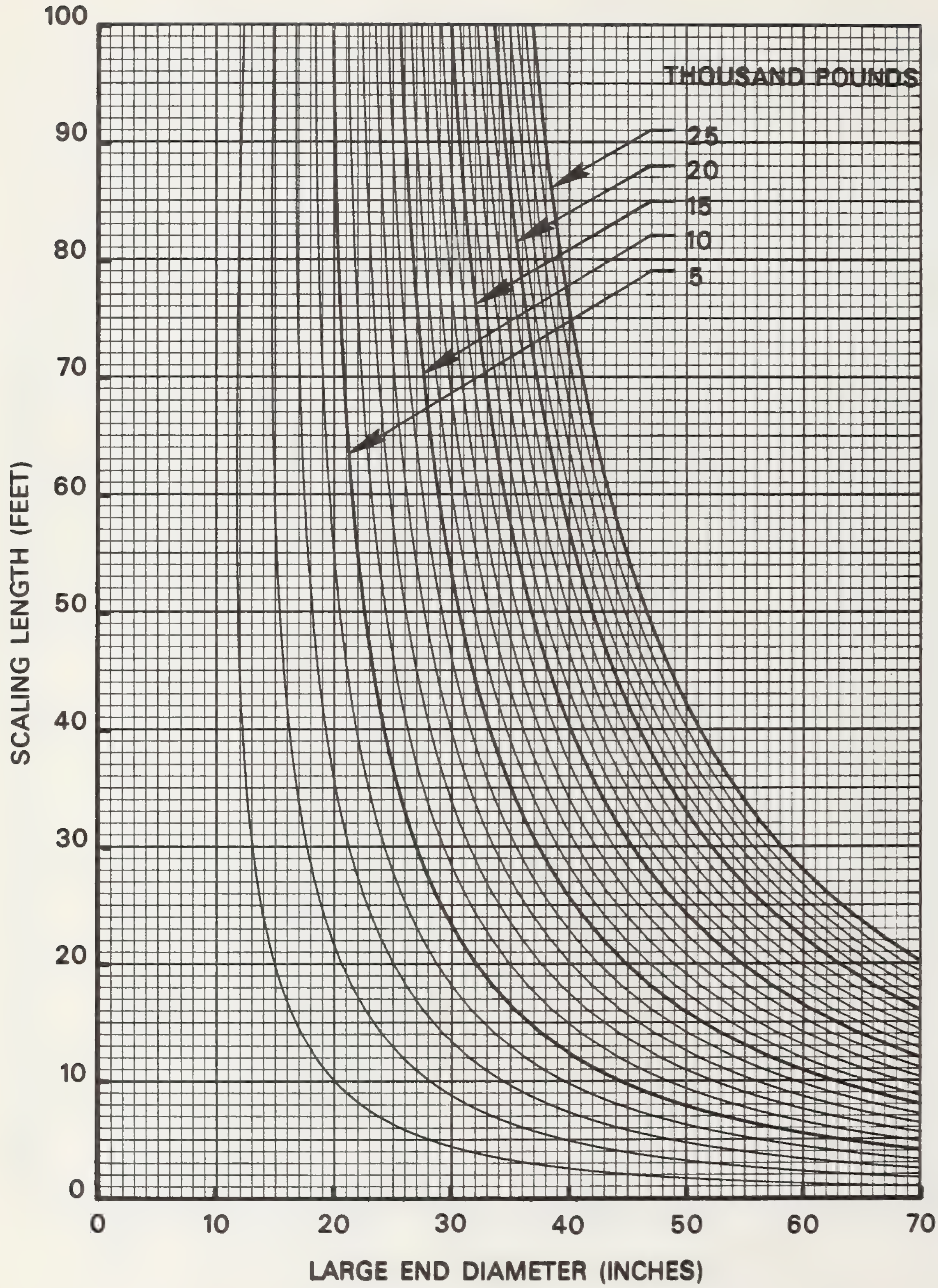


Figure 14.—Scaling length versus large end diameter for various log weights. Density index = 48 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

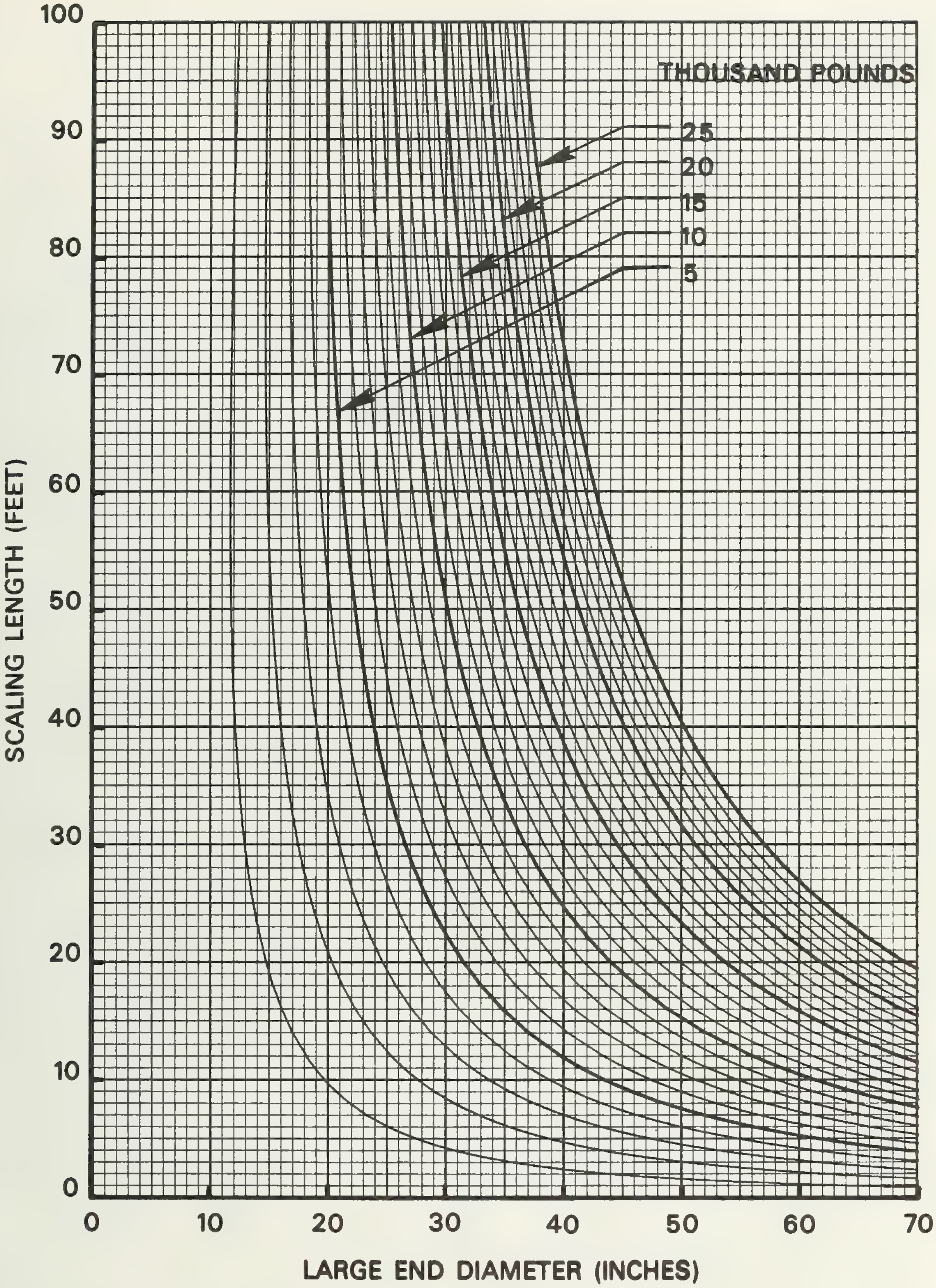


Figure 15.—Scaling length versus large end diameter for various log weights. Density index = 50 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

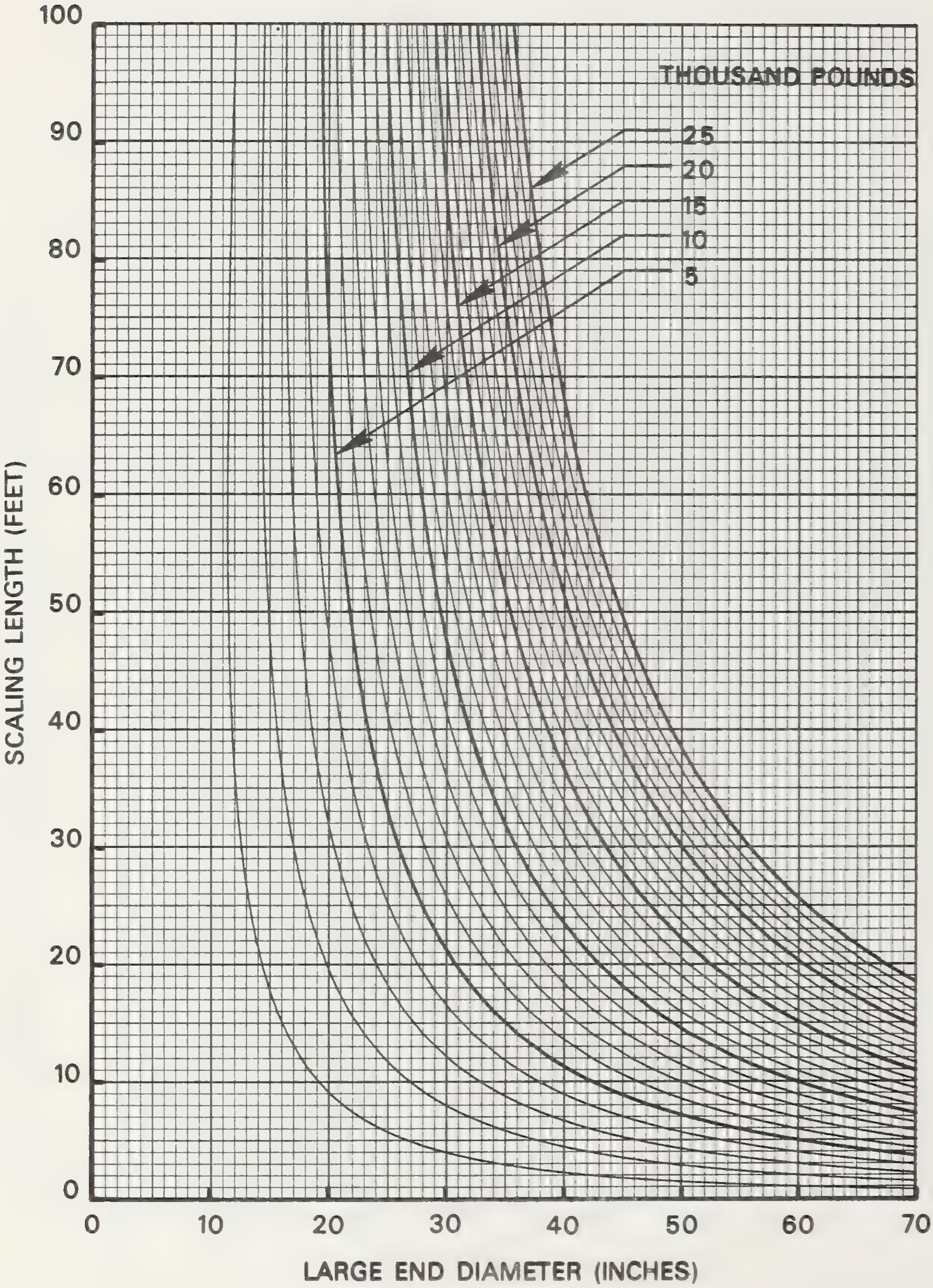


Figure 16.—Scaling length versus large end diameter for various log weights Density index = 52 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

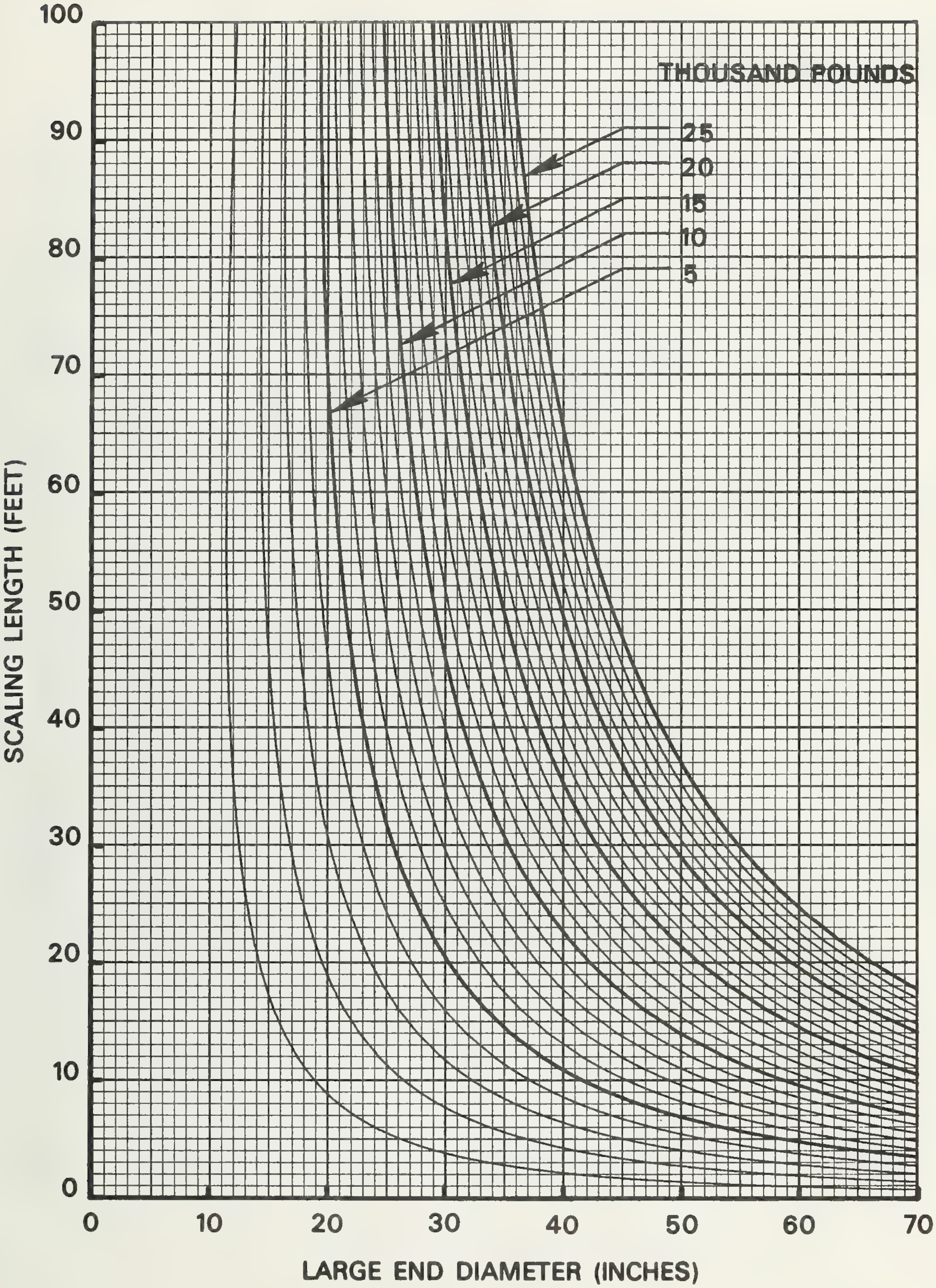


Figure 17.—Scaling length versus large end diameter for various log weights. Density index = 54 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

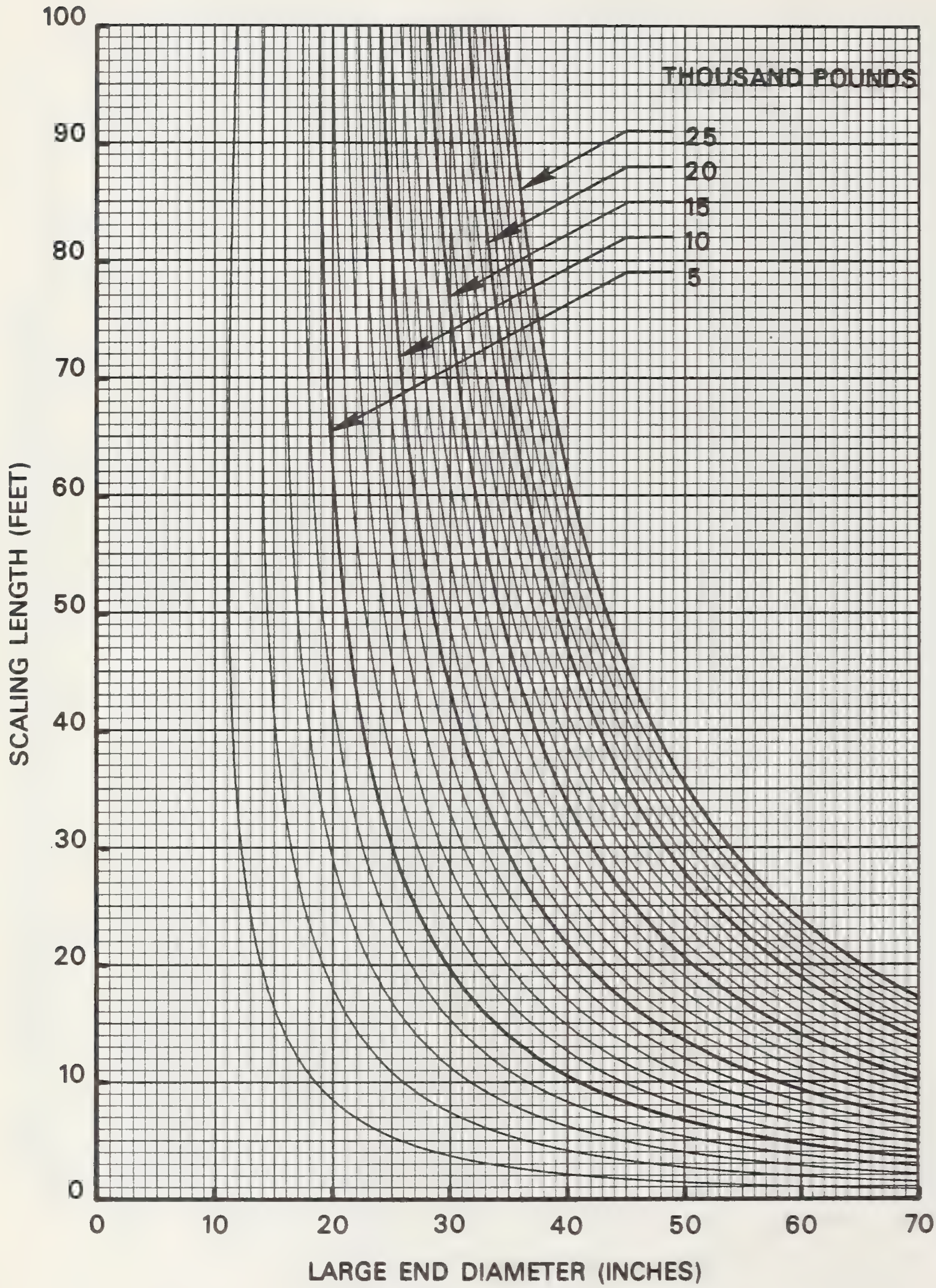


Figure 18.—Scaling length versus large end diameter for various log weights. Density index = 56 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

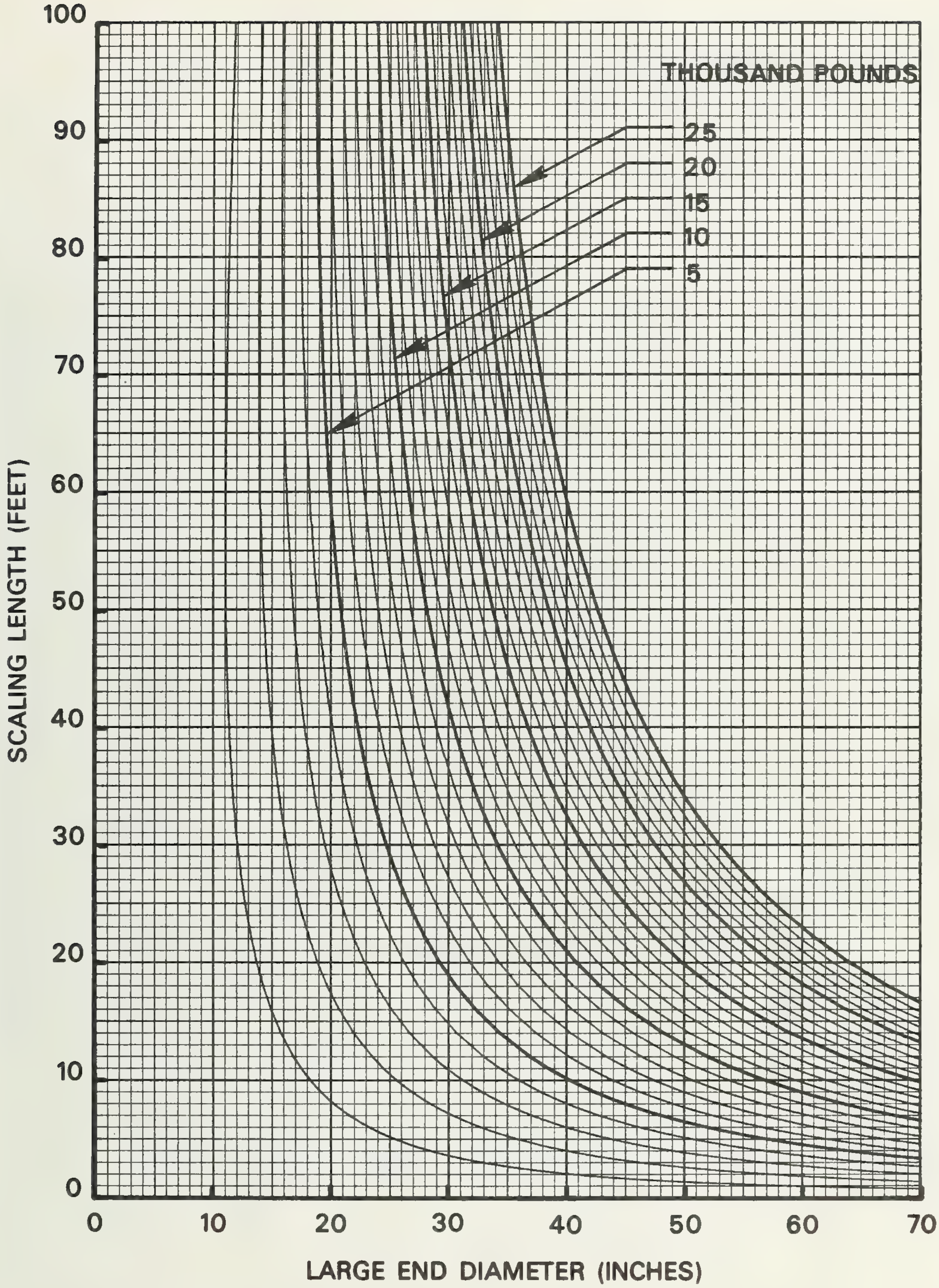


Figure 19.—Scaling length versus large end diameter for various log weights. Density index = 58 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

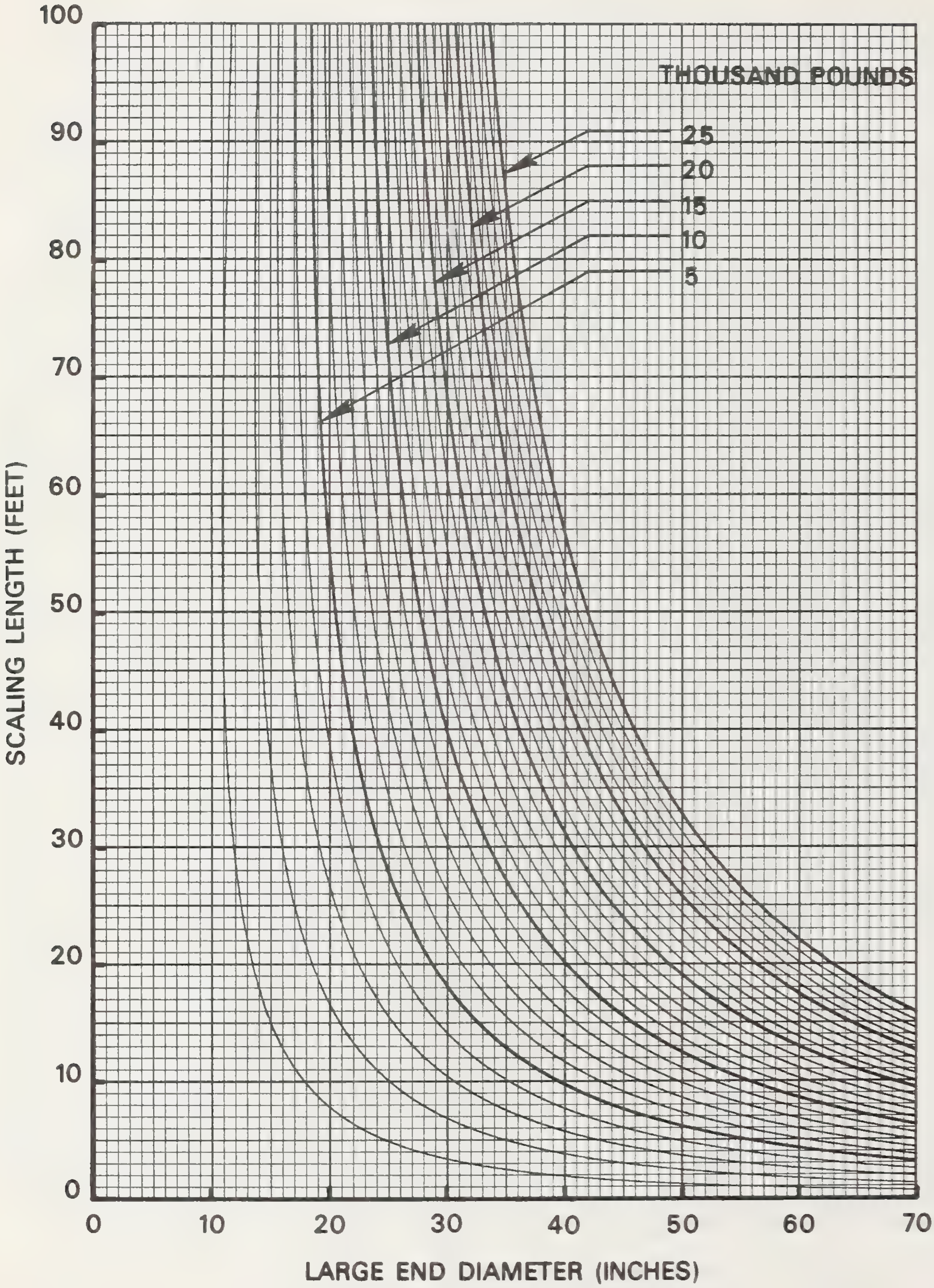


Figure 20.—Scaling length versus large end diameter for various log weights. Density index = 60 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

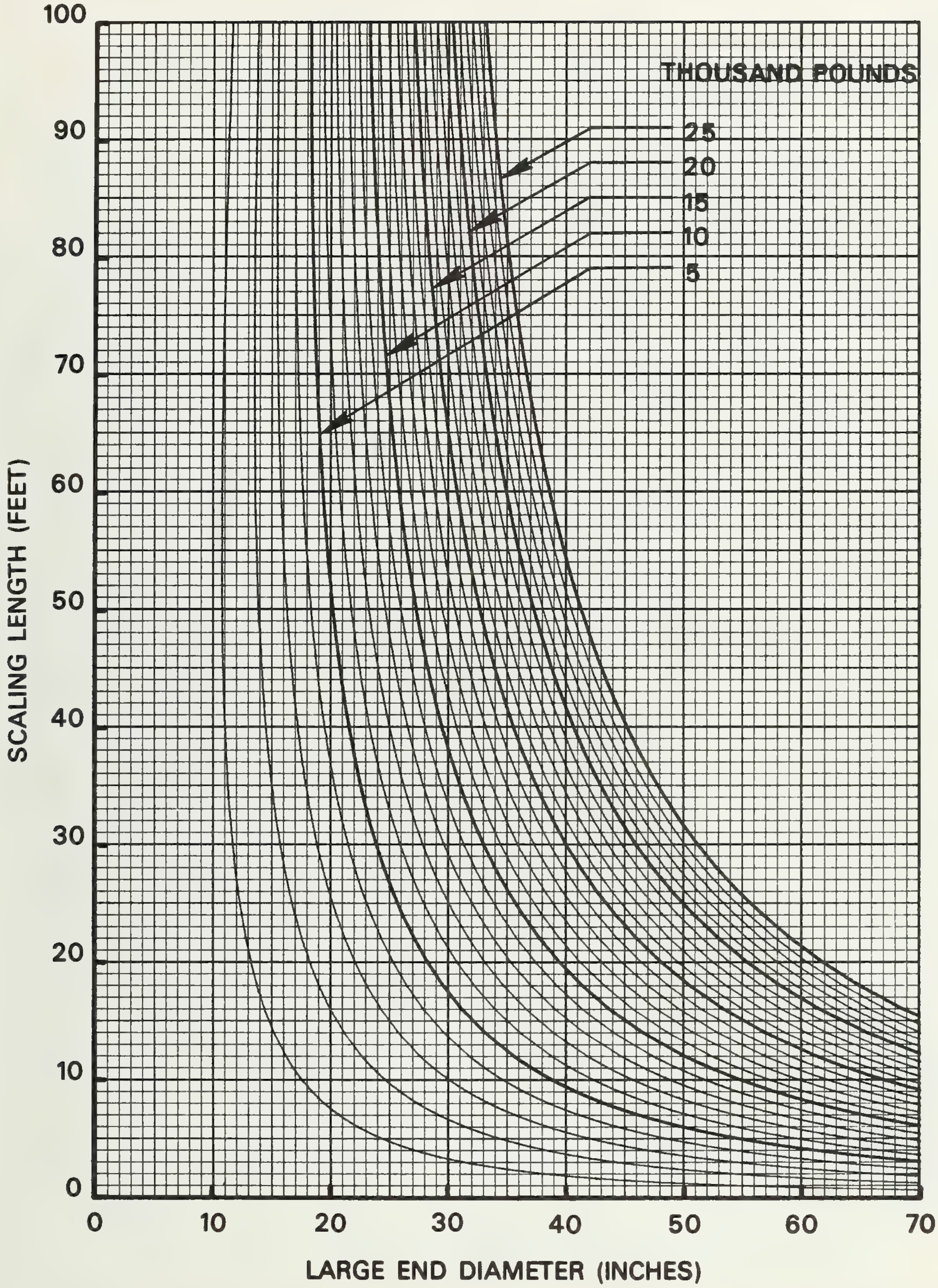


Figure 21.–Scaling length versus large end diameter for various log weights. Density index = 62 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

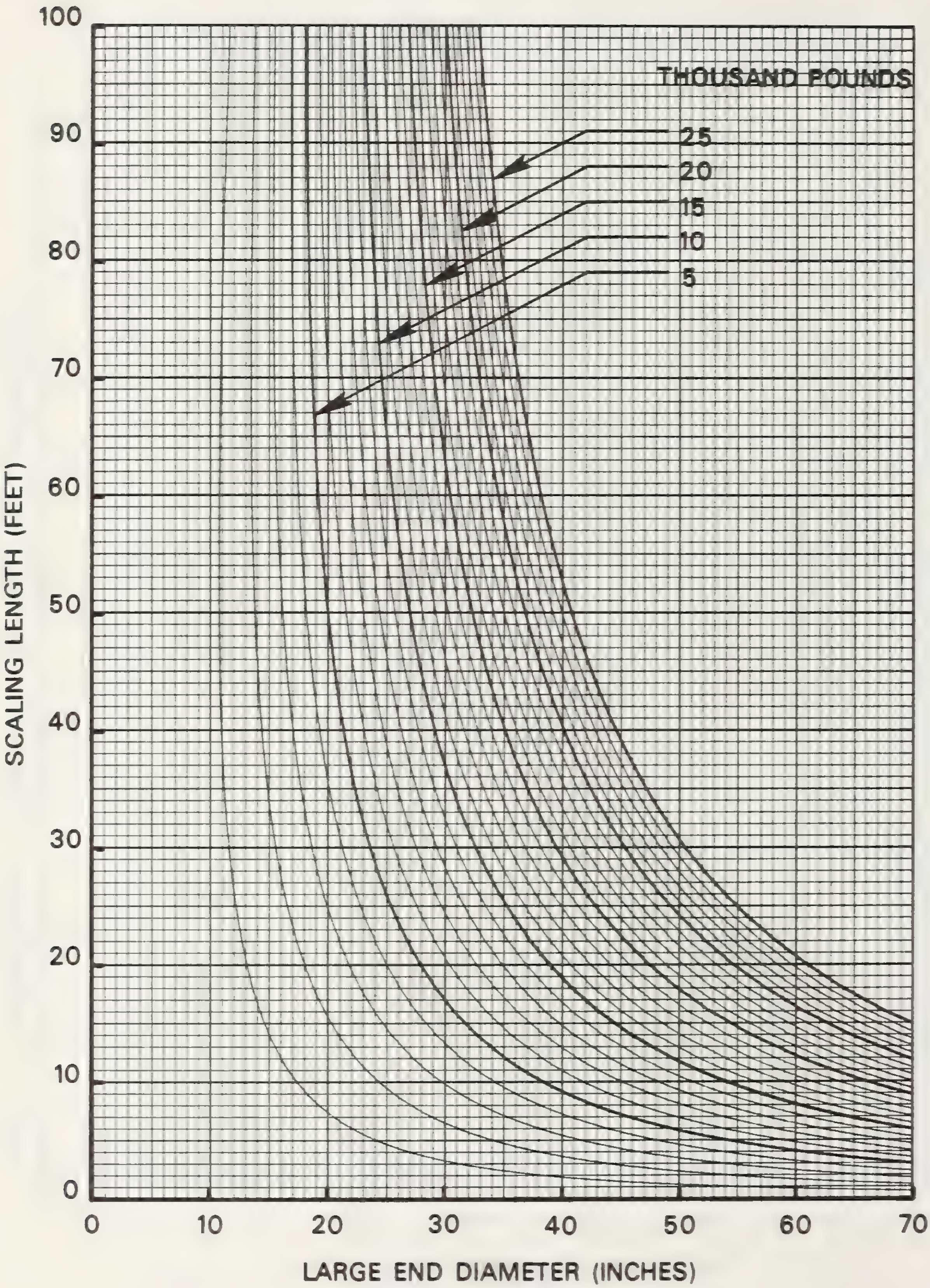


Figure 22.—Scaling length versus large end diameter for various log weights. Density index = 64 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

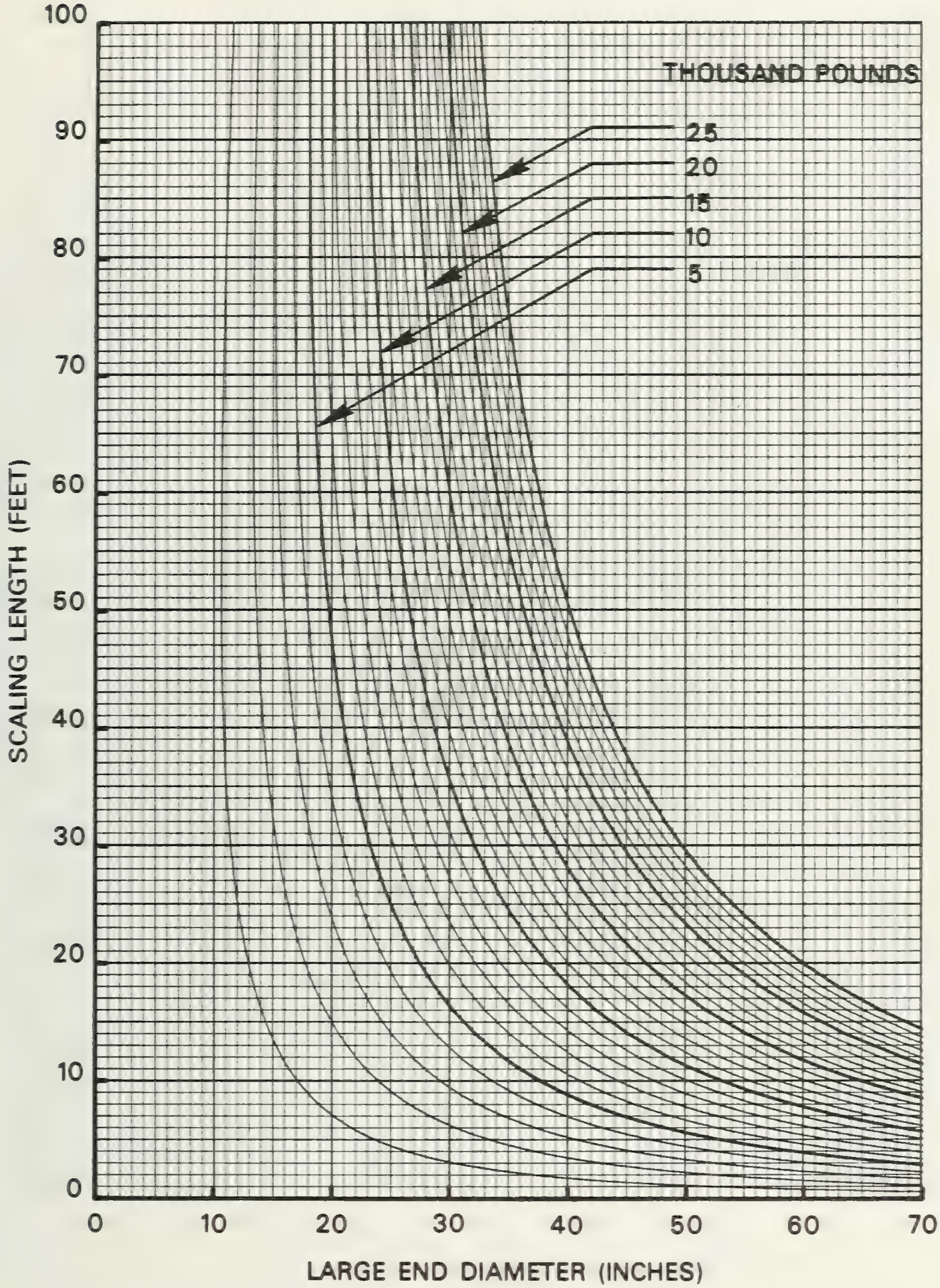


Figure 23.—Scaling length versus large end diameter for various log weights. Density index = 66 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

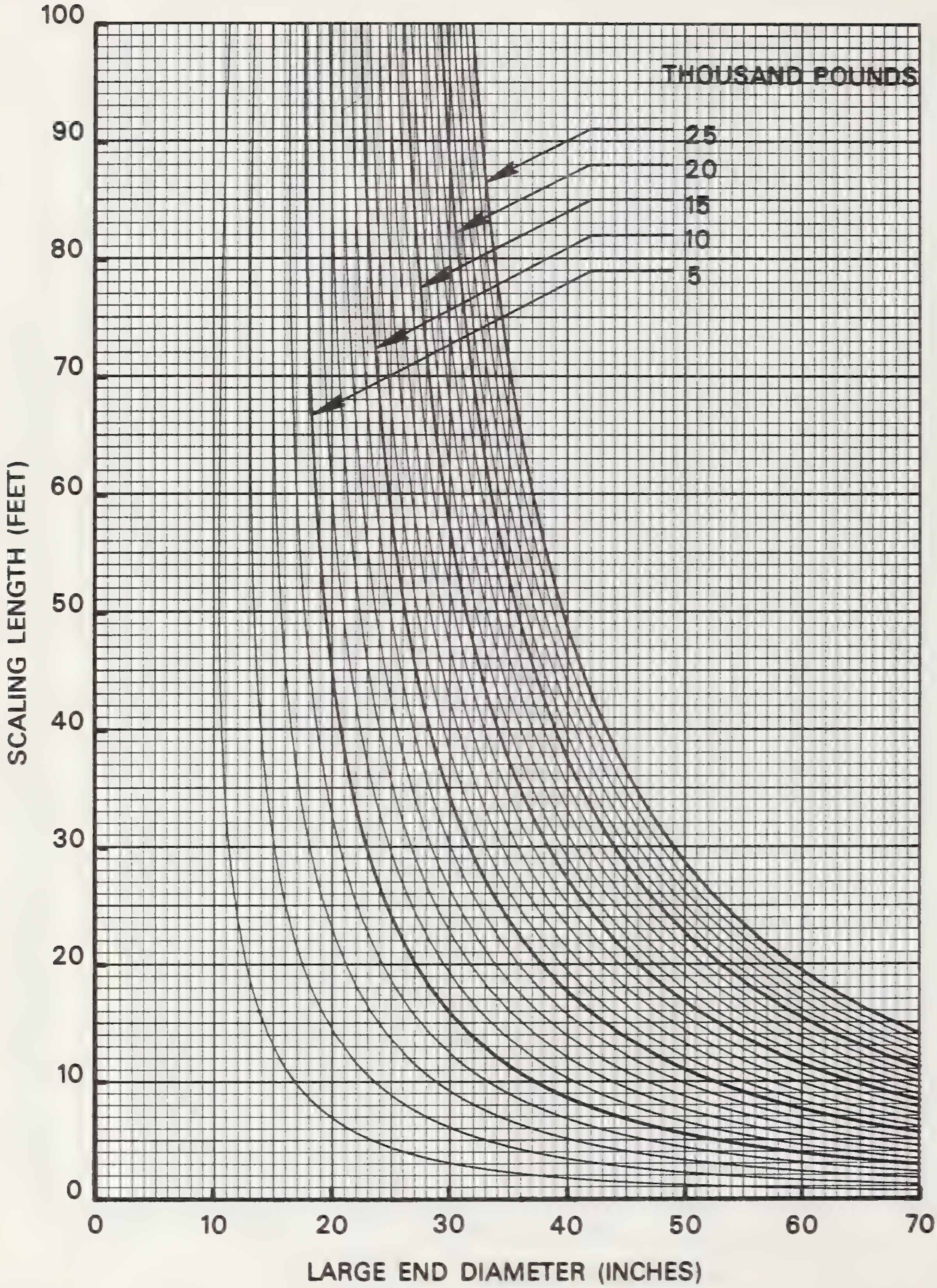


Figure 24.—Scaling length versus large end diameter for various log weights. Density index = 68 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

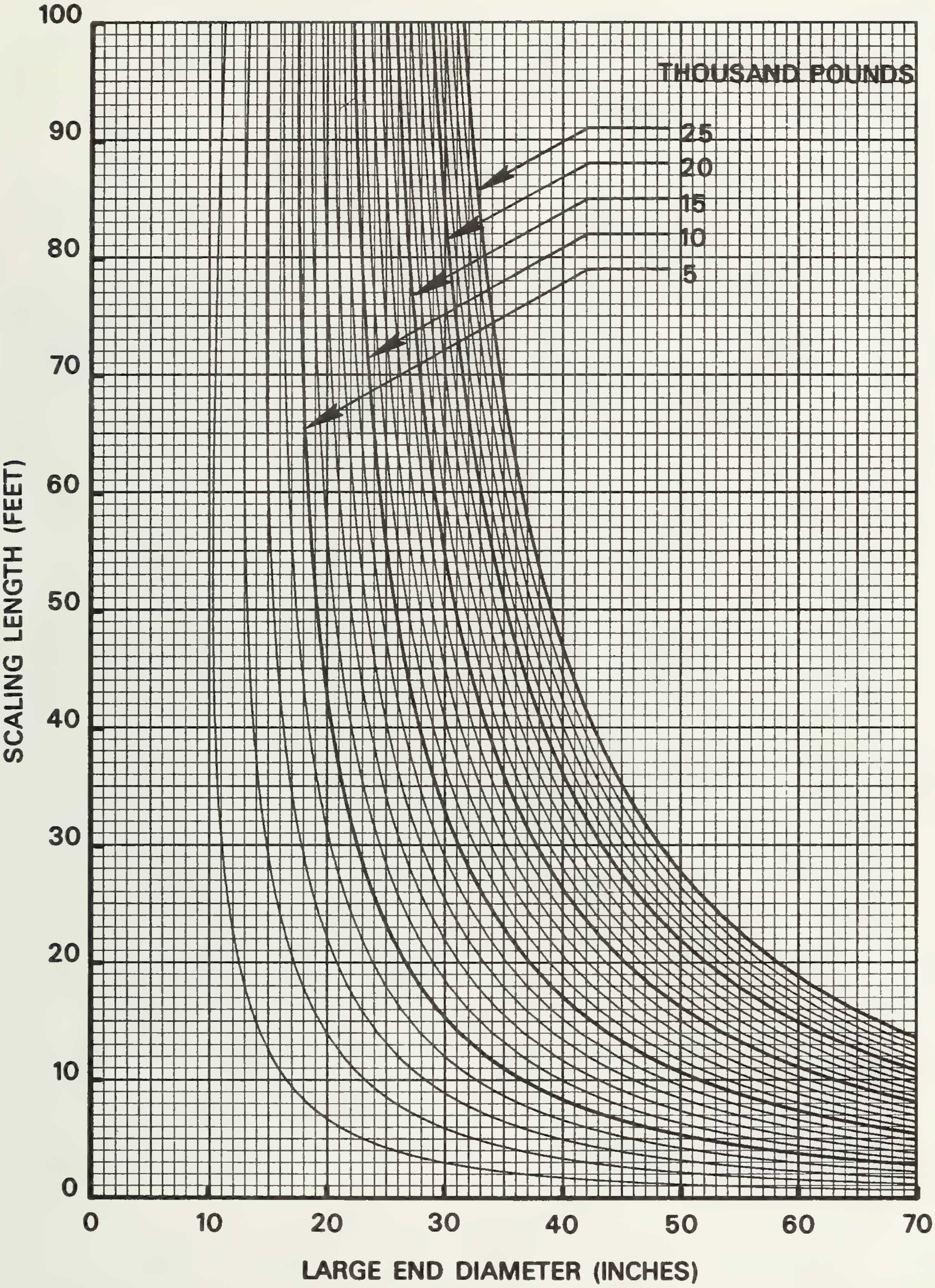


Figure 25.—Scaling length versus large end diameter for various log weights. Density index = 70 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

Figure 26.—Density index worksheet.

Sample No. _______ Date _______ Truck No. _______ Load No. _______

Gross weight __________lbs. Logging site __________

Tare weight __________lbs. Species __________

Net log weight _________lbs.

Scaling length[1/] (feet)	Large end diameter (outside bark, inches)	Volume[2/] (cubic feet)	Scaling length[1/] (feet)	Large end diameter (outside bark, inches)	Volume[2/] (cubic feet)
				TOTAL CUBIC VOLUME	

$$\text{Density index} = \frac{\text{Net log weight\_\_\_\_\_\_lbs.}}{\text{Total cu. vol.\_\_\_\_\_\_cu. ft.}} = \text{\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ lb./cu. ft.}$$

[1/] Use local scaling practices.

[2/] Tables 1 and 2.

Figure 27.—Worksheet for moving average of density index.

Logging site ______ Species ______

Sample number	Date of sample	Sample density index	Moving total of density index 1/	Current moving average 2/

1/ Add newest sample and delete oldest sample which was included in previous total.

2/ Divide moving total by number of sample in moving average.

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Keywords: Logs, weights, logging.

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The mission of the PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION is to provide the knowledge, technology, and alternatives for present and future protection, management, and use of forest, range, and related environments.

Within this overall mission, the Station conducts and stimulates research to facilitate and to accelerate progress toward the following goals:

1. Providing safe and efficient technology for inventory, protection, and use of resources.
2. Development and evaluation of alternative methods and levels of resource management.
3. Achievement of optimum sustained resource productivity consistent with maintaining a high quality forest environment.

The area of research encompasses Oregon, Washington, Alaska, and, in some cases, California, Hawaii, the Western States, and the Nation. Results of the research will be made available promptly. Project headquarters are at:

Fairbanks, Alaska
Juneau, Alaska
Bend, Oregon
Corvallis, Oregon
La Grande, Oregon
Portland, Oregon
Olympia, Washington
Seattle, Washington
Wenatchee, Washington

The FOREST SERVICE of the U.S. Department of Agriculture is dedicated to the principle of multiple use management of the Nation's forest resources for sustained yields of wood, water, forage, wildlife, and recreation. Through forestry research, cooperation with the States and private forest owners, and management of the National Forests and National Grasslands, it strives — as directed by Congress — to provide increasingly greater service to a growing Nation.

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